

Global Friction Stir Welding Tools Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GD93B2BE3EA3EN.html>

Date: June 2026

Pages: 114

Price: US\$ 3,480.00 (Single User License)

ID: GD93B2BE3EA3EN

Abstracts

According to our (Global Info Research) latest study, the global Friction Stir Welding Tools market size was valued at US\$ 34.19 million in 2025 and is forecast to a readjusted size of US\$ 47.44 million by 2032 with a CAGR of 4.8% during review period.

Friction stir welding (FSW) tools are specialized components used in the solid-state FSW process to join metals without melting. Comprised of a rotating shoulder and a pin, they generate frictional heat and plastic deformation to enable material flow at the joint. Tool geometry and material?commonly tool steel or tungsten alloys?directly influence weld quality, efficiency, and tool life. Widely applied in aerospace, automotive, power electronics and others, FSW tools allow high-strength, defect-free welds on aluminum, high-strength steels, and corrosion-resistant metals while reducing distortion and post-processing. In 2024, global sales of friction stir welding tools reached 732,700 units, with an average selling price of US\$43.42 per unit. Large-scale friction stir welding (FSW) tool manufacturers typically have a single-line production capacity of approximately 3,000 units per year. The gross profit margin for FSW tools is approximately 25%?40%.

The friction stir welding (FSW) tools market is driven by rising demand for lightweight and high-strength materials in aerospace, automotive, and renewable energy industries. FSW enables strong, defect-free welds in aluminum and other light alloys, improving fuel efficiency and structural performance. The growing use of automation and robotics further supports adoption by enhancing precision, consistency, and productivity. At the same time, increasing focus on energy-efficient and sustainable manufacturing is boosting demand, as FSW consumes less energy and produces fewer emissions than

conventional welding. However, the market faces restraints such as high equipment costs, shortage of skilled operators, and limited awareness of FSW benefits. These factors may slow adoption, especially among small and medium-sized enterprises (SMEs). Continued training, education, and cost optimization will be essential to drive wider application of FSW tools globally.

This report is a detailed and comprehensive analysis for global Friction Stir Welding Tools market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Friction Stir Welding Tools market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Friction Stir Welding Tools market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Friction Stir Welding Tools market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Friction Stir Welding Tools market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Friction Stir Welding Tools

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Friction Stir Welding Tools market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Aerospace Engineering Equipment (Suzhou), BeiJing Sooncable Technology, First-Way, Ningbo Youzhi Machinery Technology, NTK Cutting Tools, Grenzebach, PTG Holroyd, Bond Technologies, Stirtec, Mitsubishi Materials Trading, etc.

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

Market Segmentation

Friction Stir Welding Tools market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Replacement

OEM

Market segment by Material Type

Tool Steel

Tungsten Carbide

PCBN

Other

Market segment by Structure Type

Integral Tool

Separate Tool

Market segment by Application

Automotive

Aerospace

Power Electronics

Others

Major players covered

Aerospace Engineering Equipment (Suzhou)

BeiJing Sooncable Technology

First-Way

Ningbo Youzhi Machinery Technology

NTK Cutting Tools

Grenzebach

PTG Holroyd

Bond Technologies

Stirtec

Mitsubishi Materials Trading

TL FSW

World Wide Welding

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Friction Stir Welding Tools product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Friction Stir Welding Tools, with price, sales quantity, revenue, and global market share of Friction Stir Welding Tools from 2021 to 2026.

Chapter 3, the Friction Stir Welding Tools competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Friction Stir Welding Tools breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with

sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Friction Stir Welding Tools market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Friction Stir Welding Tools.

Chapter 14 and 15, to describe Friction Stir Welding Tools sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Friction Stir Welding Tools Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Replacement

1.3.3 OEM

1.4 Market Analysis by Material Type

1.4.1 Overview: Global Friction Stir Welding Tools Consumption Value by Material Type: 2021 Versus 2025 Versus 2032

1.4.2 Tool Steel

1.4.3 Tungsten Carbide

1.4.4 PCBN

1.4.5 Other

1.5 Market Analysis by Structure Type

1.5.1 Overview: Global Friction Stir Welding Tools Consumption Value by Structure Type: 2021 Versus 2025 Versus 2032

1.5.2 Integral Tool

1.5.3 Separate Tool

1.6 Market Analysis by Application

1.6.1 Overview: Global Friction Stir Welding Tools Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Automotive

1.6.3 Aerospace

1.6.4 Power Electronics

1.6.5 Others

1.7 Global Friction Stir Welding Tools Market Size & Forecast

1.7.1 Global Friction Stir Welding Tools Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Friction Stir Welding Tools Sales Quantity (2021-2032)

1.7.3 Global Friction Stir Welding Tools Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Aerospace Engineering Equipment (Suzhou)

2.1.1 Aerospace Engineering Equipment (Suzhou) Details

- 2.1.2 Aerospace Engineering Equipment (Suzhou) Major Business
- 2.1.3 Aerospace Engineering Equipment (Suzhou) Friction Stir Welding Tools Product and Services
- 2.1.4 Aerospace Engineering Equipment (Suzhou) Friction Stir Welding Tools Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Aerospace Engineering Equipment (Suzhou) Recent Developments/Updates
- 2.2 BeiJing Sooncable Technology
 - 2.2.1 BeiJing Sooncable Technology Details
 - 2.2.2 BeiJing Sooncable Technology Major Business
 - 2.2.3 BeiJing Sooncable Technology Friction Stir Welding Tools Product and Services
 - 2.2.4 BeiJing Sooncable Technology Friction Stir Welding Tools Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 BeiJing Sooncable Technology Recent Developments/Updates
- 2.3 First-Way
 - 2.3.1 First-Way Details
 - 2.3.2 First-Way Major Business
 - 2.3.3 First-Way Friction Stir Welding Tools Product and Services
 - 2.3.4 First-Way Friction Stir Welding Tools Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 First-Way Recent Developments/Updates
- 2.4 Ningbo Youzhi Machinery Technology
 - 2.4.1 Ningbo Youzhi Machinery Technology Details
 - 2.4.2 Ningbo Youzhi Machinery Technology Major Business
 - 2.4.3 Ningbo Youzhi Machinery Technology Friction Stir Welding Tools Product and Services
 - 2.4.4 Ningbo Youzhi Machinery Technology Friction Stir Welding Tools Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Ningbo Youzhi Machinery Technology Recent Developments/Updates
- 2.5 NTK Cutting Tools
 - 2.5.1 NTK Cutting Tools Details
 - 2.5.2 NTK Cutting Tools Major Business
 - 2.5.3 NTK Cutting Tools Friction Stir Welding Tools Product and Services
 - 2.5.4 NTK Cutting Tools Friction Stir Welding Tools Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 NTK Cutting Tools Recent Developments/Updates
- 2.6 Grenzebach
 - 2.6.1 Grenzebach Details
 - 2.6.2 Grenzebach Major Business
 - 2.6.3 Grenzebach Friction Stir Welding Tools Product and Services

2.6.4 Grenzebach Friction Stir Welding Tools Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Grenzebach Recent Developments/Updates

2.7 PTG Holroyd

2.7.1 PTG Holroyd Details

2.7.2 PTG Holroyd Major Business

2.7.3 PTG Holroyd Friction Stir Welding Tools Product and Services

2.7.4 PTG Holroyd Friction Stir Welding Tools Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 PTG Holroyd Recent Developments/Updates

2.8 Bond Technologies

2.8.1 Bond Technologies Details

2.8.2 Bond Technologies Major Business

2.8.3 Bond Technologies Friction Stir Welding Tools Product and Services

2.8.4 Bond Technologies Friction Stir Welding Tools Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Bond Technologies Recent Developments/Updates

2.9 Stirtec

2.9.1 Stirtec Details

2.9.2 Stirtec Major Business

2.9.3 Stirtec Friction Stir Welding Tools Product and Services

2.9.4 Stirtec Friction Stir Welding Tools Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Stirtec Recent Developments/Updates

2.10 Mitsubishi Materials Trading

2.10.1 Mitsubishi Materials Trading Details

2.10.2 Mitsubishi Materials Trading Major Business

2.10.3 Mitsubishi Materials Trading Friction Stir Welding Tools Product and Services

2.10.4 Mitsubishi Materials Trading Friction Stir Welding Tools Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Mitsubishi Materials Trading Recent Developments/Updates

2.11 TL FSW

2.11.1 TL FSW Details

2.11.2 TL FSW Major Business

2.11.3 TL FSW Friction Stir Welding Tools Product and Services

2.11.4 TL FSW Friction Stir Welding Tools Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 TL FSW Recent Developments/Updates

2.12 World Wide Welding

- 2.12.1 World Wide Welding Details
- 2.12.2 World Wide Welding Major Business
- 2.12.3 World Wide Welding Friction Stir Welding Tools Product and Services
- 2.12.4 World Wide Welding Friction Stir Welding Tools Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.12.5 World Wide Welding Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: FRICTION STIR WELDING TOOLS BY MANUFACTURER

- 3.1 Global Friction Stir Welding Tools Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Friction Stir Welding Tools Revenue by Manufacturer (2021-2026)
- 3.3 Global Friction Stir Welding Tools Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Friction Stir Welding Tools by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Friction Stir Welding Tools Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Friction Stir Welding Tools Manufacturer Market Share in 2025
- 3.5 Friction Stir Welding Tools Market: Overall Company Footprint Analysis
 - 3.5.1 Friction Stir Welding Tools Market: Region Footprint
 - 3.5.2 Friction Stir Welding Tools Market: Company Product Type Footprint
 - 3.5.3 Friction Stir Welding Tools Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Friction Stir Welding Tools Market Size by Region
 - 4.1.1 Global Friction Stir Welding Tools Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Friction Stir Welding Tools Consumption Value by Region (2021-2032)
 - 4.1.3 Global Friction Stir Welding Tools Average Price by Region (2021-2032)
- 4.2 North America Friction Stir Welding Tools Consumption Value (2021-2032)
- 4.3 Europe Friction Stir Welding Tools Consumption Value (2021-2032)
- 4.4 Asia-Pacific Friction Stir Welding Tools Consumption Value (2021-2032)
- 4.5 South America Friction Stir Welding Tools Consumption Value (2021-2032)
- 4.6 Middle East & Africa Friction Stir Welding Tools Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Friction Stir Welding Tools Sales Quantity by Type (2021-2032)
- 5.2 Global Friction Stir Welding Tools Consumption Value by Type (2021-2032)
- 5.3 Global Friction Stir Welding Tools Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Friction Stir Welding Tools Sales Quantity by Application (2021-2032)
- 6.2 Global Friction Stir Welding Tools Consumption Value by Application (2021-2032)
- 6.3 Global Friction Stir Welding Tools Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Friction Stir Welding Tools Sales Quantity by Type (2021-2032)
- 7.2 North America Friction Stir Welding Tools Sales Quantity by Application (2021-2032)
- 7.3 North America Friction Stir Welding Tools Market Size by Country
 - 7.3.1 North America Friction Stir Welding Tools Sales Quantity by Country (2021-2032)
 - 7.3.2 North America Friction Stir Welding Tools Consumption Value by Country (2021-2032)
 - 7.3.3 United States Market Size and Forecast (2021-2032)
 - 7.3.4 Canada Market Size and Forecast (2021-2032)
 - 7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe Friction Stir Welding Tools Sales Quantity by Type (2021-2032)
- 8.2 Europe Friction Stir Welding Tools Sales Quantity by Application (2021-2032)
- 8.3 Europe Friction Stir Welding Tools Market Size by Country
 - 8.3.1 Europe Friction Stir Welding Tools Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe Friction Stir Welding Tools Consumption Value by Country (2021-2032)
 - 8.3.3 Germany Market Size and Forecast (2021-2032)
 - 8.3.4 France Market Size and Forecast (2021-2032)
 - 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
 - 8.3.6 Russia Market Size and Forecast (2021-2032)
 - 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Friction Stir Welding Tools Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Friction Stir Welding Tools Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Friction Stir Welding Tools Market Size by Region
 - 9.3.1 Asia-Pacific Friction Stir Welding Tools Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific Friction Stir Welding Tools Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Friction Stir Welding Tools Sales Quantity by Type (2021-2032)
- 10.2 South America Friction Stir Welding Tools Sales Quantity by Application (2021-2032)
- 10.3 South America Friction Stir Welding Tools Market Size by Country
 - 10.3.1 South America Friction Stir Welding Tools Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Friction Stir Welding Tools Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Friction Stir Welding Tools Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa Friction Stir Welding Tools Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Friction Stir Welding Tools Market Size by Country
 - 11.3.1 Middle East & Africa Friction Stir Welding Tools Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa Friction Stir Welding Tools Consumption Value by Country (2021-2032)
 - 11.3.3 Turkey Market Size and Forecast (2021-2032)
 - 11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Friction Stir Welding Tools Market Drivers

12.2 Friction Stir Welding Tools Market Restraints

12.3 Friction Stir Welding Tools Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Friction Stir Welding Tools and Key Manufacturers

13.2 Manufacturing Costs Percentage of Friction Stir Welding Tools

13.3 Friction Stir Welding Tools Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Friction Stir Welding Tools Typical Distributors

14.3 Friction Stir Welding Tools Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Friction Stir Welding Tools Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Friction Stir Welding Tools Consumption Value by Material Type, (USD Million), 2021 & 2025 & 2032

Table 3. Global Friction Stir Welding Tools Consumption Value by Structure Type, (USD Million), 2021 & 2025 & 2032

Table 4. Global Friction Stir Welding Tools Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Aerospace Engineering Equipment (Suzhou) Basic Information, Manufacturing Base and Competitors

Table 6. Aerospace Engineering Equipment (Suzhou) Major Business

Table 7. Aerospace Engineering Equipment (Suzhou) Friction Stir Welding Tools Product and Services

Table 8. Aerospace Engineering Equipment (Suzhou) Friction Stir Welding Tools Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Aerospace Engineering Equipment (Suzhou) Recent Developments/Updates

Table 10. BeiJing Sooncable Technology Basic Information, Manufacturing Base and Competitors

Table 11. BeiJing Sooncable Technology Major Business

Table 12. BeiJing Sooncable Technology Friction Stir Welding Tools Product and Services

Table 13. BeiJing Sooncable Technology Friction Stir Welding Tools Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. BeiJing Sooncable Technology Recent Developments/Updates

Table 15. First-Way Basic Information, Manufacturing Base and Competitors

Table 16. First-Way Major Business

Table 17. First-Way Friction Stir Welding Tools Product and Services

Table 18. First-Way Friction Stir Welding Tools Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. First-Way Recent Developments/Updates

Table 20. Ningbo Youzhi Machinery Technology Basic Information, Manufacturing Base and Competitors

Table 21. Ningbo Youzhi Machinery Technology Major Business

Table 22. Ningbo Youzhi Machinery Technology Friction Stir Welding Tools Product and Services

Table 23. Ningbo Youzhi Machinery Technology Friction Stir Welding Tools Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Ningbo Youzhi Machinery Technology Recent Developments/Updates

Table 25. NTK Cutting Tools Basic Information, Manufacturing Base and Competitors

Table 26. NTK Cutting Tools Major Business

Table 27. NTK Cutting Tools Friction Stir Welding Tools Product and Services

Table 28. NTK Cutting Tools Friction Stir Welding Tools Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. NTK Cutting Tools Recent Developments/Updates

Table 30. Grenzebach Basic Information, Manufacturing Base and Competitors

Table 31. Grenzebach Major Business

Table 32. Grenzebach Friction Stir Welding Tools Product and Services

Table 33. Grenzebach Friction Stir Welding Tools Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Grenzebach Recent Developments/Updates

Table 35. PTG Holroyd Basic Information, Manufacturing Base and Competitors

Table 36. PTG Holroyd Major Business

Table 37. PTG Holroyd Friction Stir Welding Tools Product and Services

Table 38. PTG Holroyd Friction Stir Welding Tools Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. PTG Holroyd Recent Developments/Updates

Table 40. Bond Technologies Basic Information, Manufacturing Base and Competitors

Table 41. Bond Technologies Major Business

Table 42. Bond Technologies Friction Stir Welding Tools Product and Services

Table 43. Bond Technologies Friction Stir Welding Tools Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Bond Technologies Recent Developments/Updates

Table 45. Stirtec Basic Information, Manufacturing Base and Competitors

Table 46. Stirtec Major Business

Table 47. Stirtec Friction Stir Welding Tools Product and Services

Table 48. Stirtec Friction Stir Welding Tools Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Stirtec Recent Developments/Updates

Table 50. Mitsubishi Materials Trading Basic Information, Manufacturing Base and

Competitors

Table 51. Mitsubishi Materials Trading Major Business

Table 52. Mitsubishi Materials Trading Friction Stir Welding Tools Product and Services

Table 53. Mitsubishi Materials Trading Friction Stir Welding Tools Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Mitsubishi Materials Trading Recent Developments/Updates

Table 55. TL FSW Basic Information, Manufacturing Base and Competitors

Table 56. TL FSW Major Business

Table 57. TL FSW Friction Stir Welding Tools Product and Services

Table 58. TL FSW Friction Stir Welding Tools Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. TL FSW Recent Developments/Updates

Table 60. World Wide Welding Basic Information, Manufacturing Base and Competitors

Table 61. World Wide Welding Major Business

Table 62. World Wide Welding Friction Stir Welding Tools Product and Services

Table 63. World Wide Welding Friction Stir Welding Tools Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. World Wide Welding Recent Developments/Updates

Table 65. Global Friction Stir Welding Tools Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 66. Global Friction Stir Welding Tools Revenue by Manufacturer (2021-2026) & (USD Million)

Table 67. Global Friction Stir Welding Tools Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 68. Market Position of Manufacturers in Friction Stir Welding Tools, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 69. Head Office and Friction Stir Welding Tools Production Site of Key Manufacturer

Table 70. Friction Stir Welding Tools Market: Company Product Type Footprint

Table 71. Friction Stir Welding Tools Market: Company Product Application Footprint

Table 72. Friction Stir Welding Tools New Market Entrants and Barriers to Market Entry

Table 73. Friction Stir Welding Tools Mergers, Acquisition, Agreements, and Collaborations

Table 74. Global Friction Stir Welding Tools Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 75. Global Friction Stir Welding Tools Sales Quantity by Region (2021-2026) & (K Units)

Table 76. Global Friction Stir Welding Tools Sales Quantity by Region (2027-2032) & (K Units)

Table 77. Global Friction Stir Welding Tools Consumption Value by Region (2021-2026) & (USD Million)

Table 78. Global Friction Stir Welding Tools Consumption Value by Region (2027-2032) & (USD Million)

Table 79. Global Friction Stir Welding Tools Average Price by Region (2021-2026) & (US\$/Unit)

Table 80. Global Friction Stir Welding Tools Average Price by Region (2027-2032) & (US\$/Unit)

Table 81. Global Friction Stir Welding Tools Sales Quantity by Type (2021-2026) & (K Units)

Table 82. Global Friction Stir Welding Tools Sales Quantity by Type (2027-2032) & (K Units)

Table 83. Global Friction Stir Welding Tools Consumption Value by Type (2021-2026) & (USD Million)

Table 84. Global Friction Stir Welding Tools Consumption Value by Type (2027-2032) & (USD Million)

Table 85. Global Friction Stir Welding Tools Average Price by Type (2021-2026) & (US\$/Unit)

Table 86. Global Friction Stir Welding Tools Average Price by Type (2027-2032) & (US\$/Unit)

Table 87. Global Friction Stir Welding Tools Sales Quantity by Application (2021-2026) & (K Units)

Table 88. Global Friction Stir Welding Tools Sales Quantity by Application (2027-2032) & (K Units)

Table 89. Global Friction Stir Welding Tools Consumption Value by Application (2021-2026) & (USD Million)

Table 90. Global Friction Stir Welding Tools Consumption Value by Application (2027-2032) & (USD Million)

Table 91. Global Friction Stir Welding Tools Average Price by Application (2021-2026) & (US\$/Unit)

Table 92. Global Friction Stir Welding Tools Average Price by Application (2027-2032) & (US\$/Unit)

Table 93. North America Friction Stir Welding Tools Sales Quantity by Type (2021-2026) & (K Units)

Table 94. North America Friction Stir Welding Tools Sales Quantity by Type (2027-2032) & (K Units)

Table 95. North America Friction Stir Welding Tools Sales Quantity by Application

(2021-2026) & (K Units)

Table 96. North America Friction Stir Welding Tools Sales Quantity by Application

(2027-2032) & (K Units)

Table 97. North America Friction Stir Welding Tools Sales Quantity by Country

(2021-2026) & (K Units)

Table 98. North America Friction Stir Welding Tools Sales Quantity by Country

(2027-2032) & (K Units)

Table 99. North America Friction Stir Welding Tools Consumption Value by Country

(2021-2026) & (USD Million)

Table 100. North America Friction Stir Welding Tools Consumption Value by Country

(2027-2032) & (USD Million)

Table 101. Europe Friction Stir Welding Tools Sales Quantity by Type (2021-2026) & (K Units)

Table 102. Europe Friction Stir Welding Tools Sales Quantity by Type (2027-2032) & (K Units)

Table 103. Europe Friction Stir Welding Tools Sales Quantity by Application

(2021-2026) & (K Units)

Table 104. Europe Friction Stir Welding Tools Sales Quantity by Application

(2027-2032) & (K Units)

Table 105. Europe Friction Stir Welding Tools Sales Quantity by Country (2021-2026) & (K Units)

Table 106. Europe Friction Stir Welding Tools Sales Quantity by Country (2027-2032) & (K Units)

Table 107. Europe Friction Stir Welding Tools Consumption Value by Country

(2021-2026) & (USD Million)

Table 108. Europe Friction Stir Welding Tools Consumption Value by Country

(2027-2032) & (USD Million)

Table 109. Asia-Pacific Friction Stir Welding Tools Sales Quantity by Type (2021-2026) & (K Units)

Table 110. Asia-Pacific Friction Stir Welding Tools Sales Quantity by Type (2027-2032) & (K Units)

Table 111. Asia-Pacific Friction Stir Welding Tools Sales Quantity by Application

(2021-2026) & (K Units)

Table 112. Asia-Pacific Friction Stir Welding Tools Sales Quantity by Application

(2027-2032) & (K Units)

Table 113. Asia-Pacific Friction Stir Welding Tools Sales Quantity by Region

(2021-2026) & (K Units)

Table 114. Asia-Pacific Friction Stir Welding Tools Sales Quantity by Region

(2027-2032) & (K Units)

Table 115. Asia-Pacific Friction Stir Welding Tools Consumption Value by Region (2021-2026) & (USD Million)

Table 116. Asia-Pacific Friction Stir Welding Tools Consumption Value by Region (2027-2032) & (USD Million)

Table 117. South America Friction Stir Welding Tools Sales Quantity by Type (2021-2026) & (K Units)

Table 118. South America Friction Stir Welding Tools Sales Quantity by Type (2027-2032) & (K Units)

Table 119. South America Friction Stir Welding Tools Sales Quantity by Application (2021-2026) & (K Units)

Table 120. South America Friction Stir Welding Tools Sales Quantity by Application (2027-2032) & (K Units)

Table 121. South America Friction Stir Welding Tools Sales Quantity by Country (2021-2026) & (K Units)

Table 122. South America Friction Stir Welding Tools Sales Quantity by Country (2027-2032) & (K Units)

Table 123. South America Friction Stir Welding Tools Consumption Value by Country (2021-2026) & (USD Million)

Table 124. South America Friction Stir Welding Tools Consumption Value by Country (2027-2032) & (USD Million)

Table 125. Middle East & Africa Friction Stir Welding Tools Sales Quantity by Type (2021-2026) & (K Units)

Table 126. Middle East & Africa Friction Stir Welding Tools Sales Quantity by Type (2027-2032) & (K Units)

Table 127. Middle East & Africa Friction Stir Welding Tools Sales Quantity by Application (2021-2026) & (K Units)

Table 128. Middle East & Africa Friction Stir Welding Tools Sales Quantity by Application (2027-2032) & (K Units)

Table 129. Middle East & Africa Friction Stir Welding Tools Sales Quantity by Country (2021-2026) & (K Units)

Table 130. Middle East & Africa Friction Stir Welding Tools Sales Quantity by Country (2027-2032) & (K Units)

Table 131. Middle East & Africa Friction Stir Welding Tools Consumption Value by Country (2021-2026) & (USD Million)

Table 132. Middle East & Africa Friction Stir Welding Tools Consumption Value by Country (2027-2032) & (USD Million)

Table 133. Friction Stir Welding Tools Raw Material

Table 134. Key Manufacturers of Friction Stir Welding Tools Raw Materials

Table 135. Friction Stir Welding Tools Typical Distributors

Table 136. Friction Stir Welding Tools Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Friction Stir Welding Tools Picture

Figure 2. Global Friction Stir Welding Tools Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Friction Stir Welding Tools Revenue Market Share by Type in 2025

Figure 4. Replacement Examples

Figure 5. OEM Examples

Figure 6. Global Friction Stir Welding Tools Revenue by Material Type, (USD Million), 2021 & 2025 & 2032

Figure 7. Global Friction Stir Welding Tools Revenue Market Share by Material Type in 2025

Figure 8. Tool Steel Examples

Figure 9. Tungsten Carbide Examples

Figure 10. PCBN Examples

Figure 11. Other Examples

Figure 12. Global Friction Stir Welding Tools Revenue by Structure Type, (USD Million), 2021 & 2025 & 2032

Figure 13. Global Friction Stir Welding Tools Revenue Market Share by Structure Type in 2025

Figure 14. Integral Tool Examples

Figure 15. Separate Tool Examples

Figure 16. Global Friction Stir Welding Tools Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 17. Global Friction Stir Welding Tools Revenue Market Share by Application in 2025

Figure 18. Automotive Examples

Figure 19. Aerospace Examples

Figure 20. Power Electronics Examples

Figure 21. Others Examples

Figure 22. Global Friction Stir Welding Tools Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 23. Global Friction Stir Welding Tools Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 24. Global Friction Stir Welding Tools Sales Quantity (2021-2032) & (K Units)

Figure 25. Global Friction Stir Welding Tools Price (2021-2032) & (US\$/Unit)

Figure 26. Global Friction Stir Welding Tools Sales Quantity Market Share by

Manufacturer in 2025

Figure 27. Global Friction Stir Welding Tools Revenue Market Share by Manufacturer in 2025

Figure 28. Producer Shipments of Friction Stir Welding Tools by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 29. Top 3 Friction Stir Welding Tools Manufacturer (Revenue) Market Share in 2025

Figure 30. Top 6 Friction Stir Welding Tools Manufacturer (Revenue) Market Share in 2025

Figure 31. Global Friction Stir Welding Tools Sales Quantity Market Share by Region (2021-2032)

Figure 32. Global Friction Stir Welding Tools Consumption Value Market Share by Region (2021-2032)

Figure 33. North America Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Figure 34. Europe Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Figure 35. Asia-Pacific Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Figure 36. South America Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Figure 37. Middle East & Africa Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Figure 38. Global Friction Stir Welding Tools Sales Quantity Market Share by Type (2021-2032)

Figure 39. Global Friction Stir Welding Tools Consumption Value Market Share by Type (2021-2032)

Figure 40. Global Friction Stir Welding Tools Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. Global Friction Stir Welding Tools Sales Quantity Market Share by Application (2021-2032)

Figure 42. Global Friction Stir Welding Tools Revenue Market Share by Application (2021-2032)

Figure 43. Global Friction Stir Welding Tools Average Price by Application (2021-2032) & (US\$/Unit)

Figure 44. North America Friction Stir Welding Tools Sales Quantity Market Share by Type (2021-2032)

Figure 45. North America Friction Stir Welding Tools Sales Quantity Market Share by Application (2021-2032)

Figure 46. North America Friction Stir Welding Tools Sales Quantity Market Share by Country (2021-2032)

Figure 47. North America Friction Stir Welding Tools Consumption Value Market Share by Country (2021-2032)

Figure 48. United States Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Figure 49. Canada Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Figure 50. Mexico Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Figure 51. Europe Friction Stir Welding Tools Sales Quantity Market Share by Type (2021-2032)

Figure 52. Europe Friction Stir Welding Tools Sales Quantity Market Share by Application (2021-2032)

Figure 53. Europe Friction Stir Welding Tools Sales Quantity Market Share by Country (2021-2032)

Figure 54. Europe Friction Stir Welding Tools Consumption Value Market Share by Country (2021-2032)

Figure 55. Germany Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Figure 56. France Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Figure 57. United Kingdom Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Figure 58. Russia Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Figure 59. Italy Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Figure 60. Asia-Pacific Friction Stir Welding Tools Sales Quantity Market Share by Type (2021-2032)

Figure 61. Asia-Pacific Friction Stir Welding Tools Sales Quantity Market Share by Application (2021-2032)

Figure 62. Asia-Pacific Friction Stir Welding Tools Sales Quantity Market Share by Region (2021-2032)

Figure 63. Asia-Pacific Friction Stir Welding Tools Consumption Value Market Share by Region (2021-2032)

Figure 64. China Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Figure 65. Japan Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Million)

Figure 66. South Korea Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Figure 67. India Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Figure 68. Southeast Asia Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Figure 69. Australia Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Figure 70. South America Friction Stir Welding Tools Sales Quantity Market Share by Type (2021-2032)

Figure 71. South America Friction Stir Welding Tools Sales Quantity Market Share by Application (2021-2032)

Figure 72. South America Friction Stir Welding Tools Sales Quantity Market Share by Country (2021-2032)

Figure 73. South America Friction Stir Welding Tools Consumption Value Market Share by Country (2021-2032)

Figure 74. Brazil Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Figure 75. Argentina Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Figure 76. Middle East & Africa Friction Stir Welding Tools Sales Quantity Market Share by Type (2021-2032)

Figure 77. Middle East & Africa Friction Stir Welding Tools Sales Quantity Market Share by Application (2021-2032)

Figure 78. Middle East & Africa Friction Stir Welding Tools Sales Quantity Market Share by Country (2021-2032)

Figure 79. Middle East & Africa Friction Stir Welding Tools Consumption Value Market Share by Country (2021-2032)

Figure 80. Turkey Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Figure 81. Egypt Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Figure 82. Saudi Arabia Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Figure 83. South Africa Friction Stir Welding Tools Consumption Value (2021-2032) & (USD Million)

Figure 84. Friction Stir Welding Tools Market Drivers

Figure 85. Friction Stir Welding Tools Market Restraints

Figure 86. Friction Stir Welding Tools Market Trends

Figure 87. Porters Five Forces Analysis

Figure 88. Manufacturing Cost Structure Analysis of Friction Stir Welding Tools in 2025

Figure 89. Manufacturing Process Analysis of Friction Stir Welding Tools

Figure 90. Friction Stir Welding Tools Industrial Chain

Figure 91. Sales Channel: Direct to End-User vs Distributors

Figure 92. Direct Channel Pros & Cons

Figure 93. Indirect Channel Pros & Cons

Figure 94. Methodology

Figure 95. Research Process and Data Source

I would like to order

Product name: Global Friction Stir Welding Tools Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

Product link: <https://marketpublishers.com/r/GD93B2BE3EA3EN.html>

Price: US\$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GD93B2BE3EA3EN.html>