

# Global Friction Stir Welding Liquid Cold Plate Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Friction Stir Welding Liquid Cold Plate market size was valued at US\$ 733 million in 2025 and is forecast to a readjusted size of US\$ 2086 million by 2032 with a CAGR of 16.3% during review period.

Friction Stir Welding Liquid Cold Plate is a high performance thermal management component based on solid state joining technology. Friction stir welding (FSW) is the core process of friction stir welding (FSW), which generates heat by rubbing the metal plate with a high-speed rotating stirring head. The material is formed into a dense welded joint in the plastic state without melting, so as to achieve a seamless seal between the flow channel and the substrate. The liquid cooling plate is usually made of aluminum alloy, copper or stainless steel and other materials, and the internal design of complex flow channels to guide the coolant circulation, suitable for new energy batteries, electric vehicles, data centers and other scenarios that require high heat dissipation efficiency and structural reliability. The process advantages include no filling material loss, weld strength close to the base material, excellent fatigue resistance, and can avoid the thermal deformation of traditional welding problems, to ensure that the liquid cooling plate in the long-term high pressure, vibration environment still maintain high sealing and heat dissipation performance. In 2025, the global sales volume of Friction Stir Welding Liquid Cold Plate was approximately 9.49 million units, with an average price of around 75 US dollars per unit and an average industry gross profit margin of about 20%.

Friction Stir Welding Liquid Cold Plate is becoming the mainstream solution for high-power-density thermal management scenarios, thanks to its solid-state welding stability

and leak-free performance, rapidly replacing traditional processes in AI computing, energy storage, high-end power supplies and new energy applications. Industry competition has shifted from single welding capability to a comprehensive competition covering material adaptation, flow channel design, production line automation and system integration. Leading enterprises build barriers through process iteration and customized delivery. Driven by green manufacturing and long-term reliability demands, this technology continues to penetrate the market, with the supply chain focusing on regions capable of precision machining and large-scale delivery. Going forward, products will evolve toward higher integration, stronger corrosion resistance and better thermal uniformity, while process standardization and cross-scenario adaptability will become core competitive focuses.

This report is a detailed and comprehensive analysis for global Friction Stir Welding Liquid Cold Plate 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 Liquid Cold Plate market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Friction Stir Welding Liquid Cold Plate 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 Liquid Cold Plate 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 Liquid Cold Plate 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 Liquid Cold Plate

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 Liquid Cold Plate 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 Kingka Tech, Atherm, KYOYU-SEISAKUSHO, Wakefield Thermal, Uchi, MeccAL, Awind Hardware, Refidus Machinery, Walmate Thermal, Ningbo Jingcheng Machinery Manufacturing Co., Ltd, etc.

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

## **Market Segmentation**

Friction Stir Welding Liquid Cold Plate 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

Aluminum Alloy Liquid Cold Plate

Copper Liquid Cold Plate

### Market segment by Application

EV Battery

Power Electronics

Data Center & Servers

Aerospace

Communication Equipment

Others

#### Major players covered

Kingka Tech

Atherm

KYOYU-SEISAKUSHO

Wakefield Thermal

Uchi

MeccAL

Awind Hardware

Refidus Machinery

Walmate Thermal

Ningbo Jingcheng Machinery Manufacturing Co., Ltd

Nanjing Metalli Industrial

Boyd

Rnbc New Energy Co., Ltd

Suzhou Retek Heat Dissipation Technology Co., Ltd

XD Thermal Technology

Kyoyu-ss Co., Ltd

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 Liquid Cold Plate product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Friction Stir Welding Liquid Cold Plate 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 Liquid Cold Plate 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 Liquid Cold Plate.

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

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