

Global Friction Stir Welding Liquid Cold Plate Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Friction Stir Welding Liquid Cold Plate market size is expected to reach \$ 2086 million by 2032, rising at a market growth of 16.3% CAGR during the forecast period (2026-2032).

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 studies the global Friction Stir Welding Liquid Cold Plate production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Friction Stir Welding Liquid Cold Plate 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 Liquid Cold Plate that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

Global Friction Stir Welding Liquid Cold Plate total production value, 2021-2032, (USD Million)

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

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

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

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

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

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

This report profiles key players in the global Friction Stir Welding Liquid Cold Plate

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 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.

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

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/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 Liquid Cold Plate Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Friction Stir Welding Liquid Cold Plate Market, Segmentation by Type:

Aluminum Alloy Liquid Cold Plate

Copper Liquid Cold Plate

Global Friction Stir Welding Liquid Cold Plate Market, Segmentation by Application:

EV Battery

Power Electronics

Data Center & Servers

Aerospace

Communication Equipment

Others

Companies Profiled:

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

Key Questions Answered:

1. How big is the global Friction Stir Welding Liquid Cold Plate market?
2. What is the demand of the global Friction Stir Welding Liquid Cold Plate market?
3. What is the year over year growth of the global Friction Stir Welding Liquid Cold Plate market?
4. What is the production and production value of the global Friction Stir Welding Liquid Cold Plate market?
5. Who are the key producers in the global Friction Stir Welding Liquid Cold Plate market?
6. What are the growth factors driving the market demand?

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