

Global Microchannel Cooling Plate Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Microchannel Cooling Plate market size is expected to reach \$ 14.91 million by 2032, rising at a market growth of 15.8% CAGR during the forecast period (2026-2032).

Microchannel Cooling Plate form the core structure of advanced microchannel liquid cooling plates by embedding an extremely dense network of microscale channels?ranging from tens to hundreds of micrometers wide and reaching hundreds to thousands of channels per square centimeter?directly beneath the cooling surface. These microscale channels dramatically increase surface area, thin the thermal boundary layer, and create a short heat-transfer path from the heat source to the coolant, resulting in far higher convective efficiency than conventional cold plates. Manufactured through precision techniques such as micromachining, additive manufacturing, laser micromilling, and diffusion bonding, MLCPs leverage microscale fluid dynamics rather than simply ?smaller channels,? enabling the dissipation of heat fluxes that traditional macroscopic cooling structures cannot achieve. The unit price of MLCP is approximately 3?7 times that of existing water-cooled plates. Currently, the threshold for mass production and the verification cycle are high.

The upstream and downstream industrial chain of Microchannel Cooling Plate is as follows: The upstream mainly revolves around raw materials and precision manufacturing, involving metal materials such as aluminum and copper, as well as suppliers that undertake microchannel precision processing (such as etching and 3D printing) and equipment manufacturing. This part is the key to the high cost due to the complexity of the process and the difficulty in controlling the yield. The midstream is the manufacturing and system integration of water-cooled plates. The downstream is highly concentrated in the field of high power consumption heat dissipation needs, with AI

servers as the primary application, driving the explosive growth of demand. At the same time, the technology is also penetrating into fields such as new energy vehicles and humanoid robots.

This report studies the global Microchannel Cooling Plate production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Microchannel Cooling 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 Microchannel Cooling Plate that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Microchannel Cooling Plate total production and demand, 2021-2032, (Units)

Global Microchannel Cooling Plate total production value, 2021-2032, (USD Million)

Global Microchannel Cooling Plate production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Microchannel Cooling Plate consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Microchannel Cooling Plate domestic production, consumption, key domestic manufacturers and share

Global Microchannel Cooling Plate production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Microchannel Cooling Plate production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Microchannel Cooling Plate production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Microchannel Cooling 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 Mikros Technologies, Auras Technology, Asia Vital Components, Jentech Precision Industrial, Guangzhou Goaland Energy Conservation Tech, Shenzhen Envicool Technology, Baknor, United Precision Technologies, JetCool, Changzhou Tenglong Auto Parts, 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 Microchannel Cooling Plate market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Microchannel Cooling Plate Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Microchannel Cooling Plate Market, Segmentation by Type:

Planar Microchannel Cooling Plate

3D Microchannel Cooling Plate

Global Microchannel Cooling Plate Market, Segmentation by Material:

Aluminum

Copper

Global Microchannel Cooling Plate Market, Segmentation by Application:

AI Servers

New Energy Vehicles

Low-altitude Aircraft

Humanoid Robots

Others

Companies Profiled:

Mikros Technologies

Auras Technology

Asia Vital Components

Jentech Precision Industrial

Guangzhou Goaland Energy Conservation Tech

Shenzhen Envicool Technology

Baknor

United Precision Technologies

JetCool

Changzhou Tenglong Auto Parts

Lucky Harvest

Key Questions Answered:

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

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