

Global Microchannel Cooling Plate Market Growth 2026-2032

<https://marketpublishers.com/r/G33377024D79EN.html>

Date: May 2026

Pages: 124

Price: US\$ 3,660.00 (Single User License)

ID: G33377024D79EN

Abstracts

The global Microchannel Cooling Plate market size is predicted to grow from US\$ 5.07 million in 2025 to US\$ 14.92 million in 2032; it is expected to grow at a CAGR of 16.8% from 2026 to 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.

United States market for Microchannel Cooling Plate is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Microchannel Cooling Plate is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Microchannel Cooling Plate is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Microchannel Cooling Plate players cover Mikros Technologies, Auras Technology, Asia Vital Components, Jentech Precision Industrial, Guangzhou Goaland Energy Conservation Tech, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the 'Microchannel Cooling Plate Industry Forecast' looks at past sales and reviews total world Microchannel Cooling Plate sales in 2025, providing a comprehensive analysis by region and market sector of projected Microchannel Cooling Plate sales for 2026 through 2032. With Microchannel Cooling Plate sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Microchannel Cooling Plate industry.

This Insight Report provides a comprehensive analysis of the global Microchannel Cooling Plate landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Microchannel Cooling Plate portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Microchannel Cooling Plate market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Microchannel Cooling Plate and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced

view of the current state and future trajectory in the global Microchannel Cooling Plate.

This report presents a comprehensive overview, market shares, and growth opportunities of Microchannel Cooling Plate market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Planar Microchannel Cooling Plate

3D Microchannel Cooling Plate

Segmentation by Material:

Aluminum

Copper

Segmentation by Application:

AI Servers

New Energy Vehicles

Low-altitude Aircraft

Humanoid Robots

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Microchannel Cooling Plate market?

What factors are driving Microchannel Cooling Plate market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Microchannel Cooling Plate market opportunities vary by end market size?

How does Microchannel Cooling Plate break out by Type, by Application?

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