

# Global 3D Phase-Change Heat Sink Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global 3D Phase-Change Heat Sink market size is expected to reach \$ 506 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

In 2025, global 3D phase-change heat sink production reached approximately 234 k units, the average price is 1500 usd/unit. 3D phase-change heat sink is an advanced thermal management device used to solve the heat dissipation problem of high power electronic equipment. It transfers heat efficiently through the phase change cycle of the internal working medium (liquid heat absorption and evaporation ? gas movement ? condensation and heat release ? liquid reflux). Its '3D' characteristics are reflected in the construction of a three-dimensional connected full-cavity phase change heat transfer system, which can achieve efficient heat transfer and uniform temperature distribution.

The downstream consumption of 3D phase change heat sinks is distributed as follows: electronics 34%, industry 29%, aerospace 25%, and others 12%.

This report studies the global 3D Phase-Change Heat Sink production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 3D Phase-Change Heat Sink 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 3D Phase-Change Heat Sink that contribute to its increasing demand across many markets.

## Highlights and key features of the study

Global 3D Phase-Change Heat Sink total production and demand, 2021-2032, (K Units)

Global 3D Phase-Change Heat Sink total production value, 2021-2032, (USD Million)

Global 3D Phase-Change Heat Sink production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global 3D Phase-Change Heat Sink consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 3D Phase-Change Heat Sink domestic production, consumption, key domestic manufacturers and share

Global 3D Phase-Change Heat Sink production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global 3D Phase-Change Heat Sink production by Structure, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 3D Phase-Change Heat Sink production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 3D Phase-Change Heat Sink 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 Celsia, Q-ATS, ACT, Boyd Corporation, T-Global Technology, Nextronics Engineering, Shenzhen Hongfucheng New Material, Shengjiu Group, Shanghai Eagtop Electronic Technology, 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 3D Phase-Change Heat Sink 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 Structure, 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 3D Phase-Change Heat Sink Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global 3D Phase-Change Heat Sink Market, Segmentation by Structure:

Three-dimensional Fin

Pin-Fin

Stacked

#### Global 3D Phase-Change Heat Sink Market, Segmentation by Mechanism:

Heat Pipe

Vapor Chamber

Two-Phase Chamber

#### Global 3D Phase-Change Heat Sink Market, Segmentation by Cooling:

Passive

Active

Global 3D Phase-Change Heat Sink Market, Segmentation by Application:

Electronic

Industrial

Aerospace

Others

Companies Profiled:

Celsia

Q-ATS

ACT

Boyd Corporation

T-Global Technology

Nextronics Engineering

Shenzhen Hongfucheng New Material

Shengjiu Group

Shanghai Eagtop Electronic Technology

**Key Questions Answered:**

1. How big is the global 3D Phase-Change Heat Sink market?
2. What is the demand of the global 3D Phase-Change Heat Sink market?
3. What is the year over year growth of the global 3D Phase-Change Heat Sink market?

4. What is the production and production value of the global 3D Phase-Change Heat Sink market?
5. Who are the key producers in the global 3D Phase-Change Heat Sink market?
6. What are the growth factors driving the market demand?

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