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Global Loop Heat Pipes Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Loop Heat Pipes market size is expected to reach $ 45.44 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).
In 2025, global Loop Heat Pipes production reached approximately 12 thousand units, with an average global market price of around US$ 2700 per unit. A loop heat pipe (LHP) is a two-phase heat transfer device that uses capillary action to remove heat from a source and passively move it to a condenser or radiator. The gross margin of Loop Heat Pipes typically ranges from 35% to 55%, depending on application complexity, production volume, and performance requirements.
The global Loop Heat Pipes (LHPs) market is steadily expanding as industries increasingly demand highly reliable, passive, and high-performance thermal management solutions capable of operating under extreme conditions, wide temperature ranges, and complex orientations, including microgravity environments. LHPs, which transfer heat through phase change driven by capillary forces rather than mechanical pumps, have become a critical technology in spacecraft and satellite thermal control, where long life, zero maintenance, and absolute reliability are mandatory. Continued growth in commercial and government space programs, including satellite constellations, deep-space missions, Earth observation, and space exploration initiatives, has reinforced LHP adoption, as these systems effectively manage heat generated by onboard electronics, power units, sensors, and communication modules. Beyond aerospace, the market is increasingly penetrating high-power electronics, defense systems, data centers, telecom infrastructure, and advanced industrial equipment, where conventional cooling methods struggle to meet requirements for energy efficiency, noise reduction, compact design, and thermal stability. As electronics become smaller, more powerful, and more densely integrated, LHPs offer a compelling solution for removing high heat fluxes over long distances with minimal temperature gradients, supporting their gradual transition from niche aerospace

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applications into broader commercial and industrial use. From an industry chain perspective, the Loop Heat Pipe ecosystem begins upstream with suppliers of high-purity metals (such as copper, stainless steel, titanium, and aluminum alloys), working fluids (ammonia, water, methanol, or specialized refrigerants), and precision materials used for porous wick structures, which are the core technical element of LHPs. The manufacturing stage is highly technology-intensive, involving advanced processes such as sintering, fine-pore wick fabrication, precision welding, vacuum charging, and strict cleanliness control to ensure long-term stability and capillary performance. Midstream manufacturers design and assemble LHP systems, often working closely with customers to tailor evaporator geometry, wick characteristics, fluid selection, and condenser configuration to specific thermal loads and environmental constraints. Downstream, LHPs are integrated by system integrators, OEMs, and engineering contractors into spacecraft platforms, electronic enclosures, radar systems, high-power computing modules, and specialized industrial equipment. Aftermarket services?such as performance validation, reliability testing, and system optimization?play a growing role, particularly in aerospace and defense projects where long qualification cycles and mission-critical reliability create sustained service demand. Across the industry chain, strong intellectual property in wick design and system integration, combined with rigorous testing capabilities, acts as a major barrier to entry and a key source of competitive advantage. Demand drivers for Loop Heat Pipes are multifaceted. The most important driver remains the aerospace and satellite sector, where thermal control challenges intensify as payload power increases and spacecraft architectures become more compact. The rapid expansion of low-Earth-orbit (LEO) satellite constellations for communications, navigation, and remote sensing has significantly increased the volume demand for space-qualified thermal management components, including LHPs. In parallel, defense and military electronics?such as radar systems, avionics, directed-energy systems, and ruggedized computing platforms?require cooling solutions that are silent, vibration-free, and reliable under shock, temperature extremes, and harsh environments, making LHPs an attractive choice. Another key demand driver is the high-power electronics and semiconductor sector, including power electronics for electric vehicles, renewable energy systems, and advanced industrial drives, where higher power density creates thermal bottlenecks that conventional air or liquid cooling cannot easily overcome. Additionally, data centers and telecom infrastructure are emerging application areas as operators seek energy-efficient, low-maintenance thermal solutions to manage rising heat loads while reducing operational costs and carbon footprints.
This report studies the global Loop Heat Pipes production, demand, key manufacturers, and key regions.
This report is a detailed and comprehensive analysis of the world market for Loop Heat Pipes and provides market size (US$ million) and Year-over-Year (YoY) Growth,

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considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Loop Heat Pipes that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Loop Heat Pipes total production and demand, 2021-2032, (Units)
Global Loop Heat Pipes total production value, 2021-2032, (USD Million)
Global Loop Heat Pipes production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Loop Heat Pipes consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Loop Heat Pipes domestic production, consumption, key domestic manufacturers and share
Global Loop Heat Pipes production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Loop Heat Pipes production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Loop Heat Pipes production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)
This report profiles key players in the global Loop Heat Pipes 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 Boyd Corporation, Mott Corporation, Fujikura, Calyos, Advanced Cooling Technologies (ACT), Arquimea, Celsia Technologies, Thermatech, Shenzhen VC Thermal 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 Loop Heat Pipes 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 Loop Heat Pipes Market, By Region:

United States

China

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Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Loop Heat Pipes Market, Segmentation by Type:

Cylindrical Evaporator

Flat Plate Evaporator

Global Loop Heat Pipes Market, Segmentation by Control:

Passive

Active

Global Loop Heat Pipes Market, Segmentation by Temperature:

Low-Temperature

Cryogenic

Global Loop Heat Pipes Market, Segmentation by Application:

Aerospace

Electronic Equipment

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Others

Companies Profiled:

Boyd Corporation

Mott Corporation

Fujikura

Calyos

Advanced Cooling Technologies (ACT)

Arquimea

Celsia Technologies

Thermatech

Shenzhen VC Thermal Technology

Key Questions Answered:

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

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