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Global Integrated Heat Spreader (IHS) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Integrated Heat Spreader (IHS) market size is expected to reach $ 2188 million by 2032, rising at a market growth of 12.1% CAGR during the forecast period (2026-2032).

An Integrated Heat Spreader (IHS) is the surface used to make contact between a heatsink or other thermal solution and a CPU or GPU processor.

Integrated Heat Spreader (IHS) - The metal “lid” of the CPU. This serves as a heat sink designed to distribute heat from the processor itself to a CPU cooler, as well as provide protection to the processor inside. This is the part of the CPU that is still exposed after being installed in a motherboard, and is the surface to which you apply thermal paste.

Integrated Heat Spreader (IHS) are one of the fundamental heat dissipation components used in various industries. They are typically made of high thermal conductivity metals such as copper or aluminum. In the electronics industry, heat spreaders or heat sinks are installed on electronic components or chips to transfer or dissipate the heat generated by the components using the thermal conductivity of the heat dissipation material itself. Heat spreaders find wide applications in the electronic information industry, semiconductor industry, and optoelectronic component industry, with downstream applications extending to the 3C industry.

Furthermore, electric vehicles (EVs) and hybrid electric vehicles (HEVs) have become a major trend in automotive development. In the inverters and rectifiers of electric vehicles, high-power chip modules pose thermal dissipation challenges. Currently, the mainstream solution for such designs is to use water-cooled heat spreaders. By utilizing highly thermally conductive metal materials, along with metal processing techniques

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and surface treatments, the chip temperature can be controlled within an acceptable range using water cooling. The thermal design of water-cooled heat spreaders needs to effectively dissipate the heat generated by the chips, while considering the cost and manufacturability aspects of the design for mass production.

Integrated Heat Spreader (IHS) can be segmented by material, size, geometry and surface treatment. Copper Heat Spreaders and Stainless Steel Heat Spreaders are the two principal categories. Copper remains the mainstream thermal material because of its high thermal conductivity; SHINKO, for example, specifies C1020 and C1100 copper, with electrolytic Ni or Ni plus selective Au plating, and supports outer dimensions of approximately 10–100 mm and thicknesses of 1.0–4.5 mm. Copper represented 79.94% of global heat-spreader revenue in 2025, versus 20.06% for stainless steel, while the shares are forecast to shift to 55.60% and 44.40%, respectively, by 2032. By size, products are divided into Large Size products of 35×35 mm and above and Small Size products below 35×35 mm; Large Size accounted for 54.65% of revenue in 2025 and is projected to reach 72.34% in 2032. Product geometries are simultaneously evolving from conventional flat lids toward cavity, multi-step, pedestal, ring and heterogeneous-integration structures, while manufacturing increasingly combines precision stamping, machining, forging, flattening and advanced surface treatment.

Global IC Package Heat Spreader demand is undergoing a fundamental transition from PC-oriented demand toward server, data-center and AI-chip packaging. PC CPU/GPU applications accounted for 67.68% of global revenue in 2021, compared with only 19.42% for Server/Data Center/AI Chip Packages. By 2025, the respective shares had converged to 46.22% and 44.22%, while in 2026E the Server/Data Center/AI Chip Package segment is estimated to rise sharply to 57.92%, compared with 34.58% for PC CPU/GPU. By 2032, the server/data-center/AI segment is forecast to reach 75.72% of global revenue. This transition is consistent with downstream fundamentals: TrendForce raised its 2026 AI-server shipment growth forecast to nearly 31% YoY, supported by strong investment in GPU clusters, proprietary AI ASICs and AI data-center infrastructure. Automotive SoC/FPGA remains smaller but structurally attractive because of ADAS, centralized computing and software-defined vehicles, while game consoles and conventional consumer applications are expected to account for a declining proportion of industry revenue.

The global Integrated Heat Spreader (IHS) market is highly concentrated, with competition increasingly centered on large-size precision processing, advanced customer qualification, vertical manufacturing integration and exposure to AI/HPC packages. Jentech Precision Industrial ranked first with a 51.58% global share, followed

by Solstice Advanced Materials at 20.09%, SHINKO at 11.77% and I-Chiun at 6.86%, implying a combined CR4 of approximately 90.3%. Jentech's share increased from 30.27% in 2021 to more than 50% in 2024–2025, reflecting strong positioning in high-value CPU/GPU and AI/server heat spreaders. Solstice continues to include heat spreaders and thermal interface materials in its Electronic Materials portfolio and identifies CPU/GPU cooling and advanced packaging as key high-value applications. SHINKO retains integrated capabilities covering tooling, transfer stamping, machining and surface treatment. Meanwhile, Taiwan suppliers such as I-Chiun, Favor Precision and Niching benefit from proximity to the world's leading advanced-packaging ecosystem, while Chinese suppliers including Shandong Ruisi, HongRiDa and Ningbo S J are increasingly entering domestic CPU/GPU and AI-chip supply chains.

The industry is transitioning from a mature PC-oriented precision-metal component market into a higher-value semiconductor thermal-management segment closely linked to advanced packaging. Three structural changes are particularly evident. First, the product mix is rapidly shifting toward large-size heat spreaders: products of 35×35 mm and above increased from 36.41% of global revenue in 2021 to 54.65% in 2025 and are estimated at 61.47% in 2026E. Second, the application mix is rapidly shifting toward server/data-center/AI-chip packages, whose revenue share is estimated to rise from 19.42% in 2021 to 57.92% in 2026E. Third, production value is becoming increasingly concentrated in Taiwan: Taiwan's global production-value share increased from 43.03% in 2021 to 64.14% in 2025 and is estimated at 67.33% in 2026E. This is closely related to Taiwan's concentration of heat-spreader suppliers and advanced AI/HPC packaging capacity. TSMC states that 3.5-reticle-size CoWoS-L has been in production since 2024, 5.5-reticle-size CoWoS-L is scheduled to complete qualification in 2026, and development of a 9.5-reticle-size version is progressing.

The medium- to long-term growth of Integrated Heat Spreader (IHS) will be driven primarily by AI/HPC computing growth, advanced-package enlargement, increasing chip power density, heterogeneous integration, larger IHS dimensions and tighter thermal-mechanical specifications. AI GPUs and proprietary AI ASICs increasingly integrate multiple logic chiplets and HBM stacks, expanding package area and power consumption while increasing localized heat flux. This directly drives demand for larger, thicker and more structurally complex IHS products with tighter flatness, residual-stress and plating control. TSMC's roadmap toward 5.5-reticle and even 9.5-reticle CoWoS-L packages provides clear evidence of continued package enlargement. On the demand side, TrendForce's latest forecast of nearly 31% AI-server shipment growth in 2026 and continued expansion of hyperscaler AI infrastructure provide a strong structural catalyst. On the supply side, manufacturers are moving toward vertically integrated processing

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that combines precision stamping, forging, CNC machining, flattening/CMP, precision cleaning and advanced plating. As a result, future industry growth will increasingly come not only from higher unit shipments, but also from the rising revenue contribution of server/data-center/AI-chip packages, large-size products, more demanding materials and higher-value manufacturing processes.

Report Scope

This report studies the global Integrated Heat Spreader (IHS) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Integrated Heat Spreader (IHS) 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 Integrated Heat Spreader (IHS) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Integrated Heat Spreader (IHS) total production and demand, 2021-2032, (Million Pcs)

Global Integrated Heat Spreader (IHS) total production value, 2021-2032, (USD Million)

Global Integrated Heat Spreader (IHS) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Pcs), (based on production site)

Global Integrated Heat Spreader (IHS) consumption by region & country, CAGR, 2021-2032 & (Million Pcs)

U.S. VS China: Integrated Heat Spreader (IHS) domestic production, consumption, key domestic manufacturers and share

Global Integrated Heat Spreader (IHS) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Pcs)

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Global Integrated Heat Spreader (IHS) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Pcs)

Global Integrated Heat Spreader (IHS) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Pcs)

This report profiles key players in the global Integrated Heat Spreader (IHS) 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 Shinko, Honeywell Advanced Materials, Jentech Precision Industrial, I-Chiun, Favor Precision Technology, Niching Industrial Corporation, Fastrong Technologies Corp., ECE (Excel Cell Electronic), Shandong Ruisi Precision Industry, HongRiDa Electronics (HRD), 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 Integrated Heat Spreader (IHS) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Million Pcs) and average price (US$/Pcs) 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 Integrated Heat Spreader (IHS) Market, By Region:

United States

China

Europe

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Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Integrated Heat Spreader (IHS) Market, Segmentation by Type:

Heat Spreader for FC (Flip Chip)

Heat Spreader for BGA

Global Integrated Heat Spreader (IHS) Market, Segmentation By Size:

Large Size (35*35mm and Above)

Small Size (35*35mm Below)

Global Integrated Heat Spreader (IHS) Market, Segmentation By Material:

Copper Heat Spreader

Stainless Steel Heat Spreader

Global Integrated Heat Spreader (IHS) Market, Segmentation by Application:

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PC CPU/GPU Package

Server/Data Center/AI Chip Package

Automotive SoC/FPGA Package

Gaming Console

Others

Companies Profiled:

Shinko

Honeywell Advanced Materials

Jentech Precision Industrial

I-Chiun

Favor Precision Technology

Niching Industrial Corporation

Fastrong Technologies Corp.

ECE (Excel Cell Electronic)

Shandong Ruisi Precision Industry

HongRiDa Electronics (HRD)

TBT Co., Ltd

Ningbo S J Electronics

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Key Questions Answered

1. How big is the global Integrated Heat Spreader (IHS) market?
2. What is the demand of the global Integrated Heat Spreader (IHS) market?
3. What is the year over year growth of the global Integrated Heat Spreader (IHS) market?
4. What is the total value of the global Integrated Heat Spreader (IHS) market?
5. Who are the Major Players in the global Integrated Heat Spreader (IHS) market?
6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY

1.1 Integrated Heat Spreader (IHS) Introduction
1.2 World Integrated Heat Spreader (IHS) Supply & Forecast
  1.2.1 World Integrated Heat Spreader (IHS) Production Value (2021 & 2025 & 2032)
  1.2.2 World Integrated Heat Spreader (IHS) Production (2021-2032)
  1.2.3 World Integrated Heat Spreader (IHS) Pricing Trends (2021-2032)
1.3 World Integrated Heat Spreader (IHS) Production by Region (Based on Production Site)
  1.3.1 World Integrated Heat Spreader (IHS) Production Value by Region (2021-2032)
  1.3.2 World Integrated Heat Spreader (IHS) Production by Region (2021-2032)
  1.3.3 World Integrated Heat Spreader (IHS) Average Price by Region (2021-2032)
  1.3.4 Japan Integrated Heat Spreader (IHS) Production (2021-2032)
  1.3.5 China Taiwan Integrated Heat Spreader (IHS) Production (2021-2032)
  1.3.6 North America Integrated Heat Spreader (IHS) Production (2021-2032)
  1.3.7 China Integrated Heat Spreader (IHS) Production (2021-2032)
1.4 Market Drivers, Restraints and Trends
  1.4.1 Integrated Heat Spreader (IHS) Market Drivers
  1.4.2 Factors Affecting Demand
  1.4.3 Integrated Heat Spreader (IHS) Major Market Trends

2 DEMAND SUMMARY

2.1 World Integrated Heat Spreader (IHS) Demand (2021-2032)
2.2 World Integrated Heat Spreader (IHS) Consumption by Region
  2.2.1 World Integrated Heat Spreader (IHS) Consumption by Region (2021-2026)
  2.2.2 World Integrated Heat Spreader (IHS) Consumption Forecast by Region (2027-2032)
2.3 United States Integrated Heat Spreader (IHS) Consumption (2021-2032)
2.4 China Integrated Heat Spreader (IHS) Consumption (2021-2032)
2.5 Europe Integrated Heat Spreader (IHS) Consumption (2021-2032)
2.6 Japan Integrated Heat Spreader (IHS) Consumption (2021-2032)
2.7 South Korea Integrated Heat Spreader (IHS) Consumption (2021-2032)
2.8 ASEAN Integrated Heat Spreader (IHS) Consumption (2021-2032)
2.9 India Integrated Heat Spreader (IHS) Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

+357 96 030922
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3.1 World Integrated Heat Spreader (IHS) Production Value by Manufacturer (2021-2026)
3.2 World Integrated Heat Spreader (IHS) Production by Manufacturer (2021-2026)
3.3 World Integrated Heat Spreader (IHS) Average Price by Manufacturer (2021-2026)
3.4 Integrated Heat Spreader (IHS) Company Evaluation Quadrant
3.5 Industry Rank and Concentration Rate (CR)
  3.5.1 Global Integrated Heat Spreader (IHS) Industry Rank of Major Manufacturers
  3.5.2 Global Concentration Ratios (CR4) for Integrated Heat Spreader (IHS) in 2025
  3.5.3 Global Concentration Ratios (CR8) for Integrated Heat Spreader (IHS) in 2025
3.6 Integrated Heat Spreader (IHS) Market: Overall Company Footprint Analysis
  3.6.1 Integrated Heat Spreader (IHS) Market: Region Footprint
  3.6.2 Integrated Heat Spreader (IHS) Market: Company Product Type Footprint
  3.6.3 Integrated Heat Spreader (IHS) Market: Company Product Application Footprint
3.7 Competitive Environment
  3.7.1 Historical Structure of the Industry
  3.7.2 Barriers of Market Entry
  3.7.3 Factors of Competition
3.8 New Entrant and Capacity Expansion Plans
3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Integrated Heat Spreader (IHS) Production Value Comparison
  4.1.1 United States VS China: Integrated Heat Spreader (IHS) Production Value Comparison (2021 & 2025 & 2032)
  4.1.2 United States VS China: Integrated Heat Spreader (IHS) Production Value Market Share Comparison (2021 & 2025 & 2032)
4.2 United States VS China: Integrated Heat Spreader (IHS) Production Comparison
  4.2.1 United States VS China: Integrated Heat Spreader (IHS) Production Comparison (2021 & 2025 & 2032)
  4.2.2 United States VS China: Integrated Heat Spreader (IHS) Production Market Share Comparison (2021 & 2025 & 2032)
4.3 United States VS China: Integrated Heat Spreader (IHS) Consumption Comparison
  4.3.1 United States VS China: Integrated Heat Spreader (IHS) Consumption Comparison (2021 & 2025 & 2032)
  4.3.2 United States VS China: Integrated Heat Spreader (IHS) Consumption Market Share Comparison (2021 & 2025 & 2032)

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info@marketpublishers.com

4.4 United States Based Integrated Heat Spreader (IHS) Manufacturers and Market Share, 2021-2026
4.4.1 United States Based Integrated Heat Spreader (IHS) Manufacturers, Headquarters and Production Site (States, Country)
4.4.2 United States Based Manufacturers Integrated Heat Spreader (IHS) Production Value (2021-2026)
4.4.3 United States Based Manufacturers Integrated Heat Spreader (IHS) Production (2021-2026)
4.5 China Based Integrated Heat Spreader (IHS) Manufacturers and Market Share
4.5.1 China Based Integrated Heat Spreader (IHS) Manufacturers, Headquarters and Production Site (Province, Country)
4.5.2 China Based Manufacturers Integrated Heat Spreader (IHS) Production Value (2021-2026)
4.5.3 China Based Manufacturers Integrated Heat Spreader (IHS) Production (2021-2026)
4.6 Rest of World Based Integrated Heat Spreader (IHS) Manufacturers and Market Share, 2021-2026
4.6.1 Rest of World Based Integrated Heat Spreader (IHS) Manufacturers, Headquarters and Production Site (State, Country)
4.6.2 Rest of World Based Manufacturers Integrated Heat Spreader (IHS) Production Value (2021-2026)
4.6.3 Rest of World Based Manufacturers Integrated Heat Spreader (IHS) Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Integrated Heat Spreader (IHS) Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 Heat Spreader for FC (Flip Chip)
5.2.2 Heat Spreader for BGA
5.3 Market Segment by Type
5.3.1 World Integrated Heat Spreader (IHS) Production by Type (2021-2032)
5.3.2 World Integrated Heat Spreader (IHS) Production Value by Type (2021-2032)
5.3.3 World Integrated Heat Spreader (IHS) Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY SIZE

6.1 World Integrated Heat Spreader (IHS) Market Size Overview By Size: 2021 VS

+357 96 030922
info@marketpublishers.com

2025 VS 2032
6.2 Segment Introduction By Size
6.2.1 Large Size (35*35mm and Above)
6.2.2 Small Size (35*35mm Below)
6.3 Market Segment By Size
6.3.1 World Integrated Heat Spreader (IHS) Production By Size (2021-2032)
6.3.2 World Integrated Heat Spreader (IHS) Production Value By Size (2021-2032)
6.3.3 World Integrated Heat Spreader (IHS) Average Price By Size (2021-2032)

7 MARKET ANALYSIS BY MATERIAL

7.1 World Integrated Heat Spreader (IHS) Market Size Overview By Material: 2021 VS 2025 VS 2032
7.2 Segment Introduction By Material
7.2.1 Copper Heat Spreader
7.2.2 Stainless Steel Heat Spreader
7.3 Market Segment By Material
7.3.1 World Integrated Heat Spreader (IHS) Production By Material (2021-2032)
7.3.2 World Integrated Heat Spreader (IHS) Production Value By Material (2021-2032)
7.3.3 World Integrated Heat Spreader (IHS) Average Price By Material (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Integrated Heat Spreader (IHS) Market Size Overview by Application: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Application
8.2.1 PC CPU/GPU Package
8.2.2 Server/Data Center/AI Chip Package
8.2.3 Automotive SoC/FPGA Package
8.2.4 Gaming Console
8.2.5 Others
8.3 Market Segment by Application
8.3.1 World Integrated Heat Spreader (IHS) Production by Application (2021-2032)
8.3.2 World Integrated Heat Spreader (IHS) Production Value by Application (2021-2032)
8.3.3 World Integrated Heat Spreader (IHS) Average Price by Application (2021-2032)

9 COMPANY PROFILES

+357 96 030922
info@marketpublishers.com

9.1 Shinko
9.1.1 Shinko Details
9.1.2 Shinko Major Business
9.1.3 Shinko Integrated Heat Spreader (IHS) Product and Services
9.1.4 Shinko Integrated Heat Spreader (IHS) Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.1.5 Shinko Recent Developments/Updates
9.1.6 Shinko Competitive Strengths & Weaknesses
9.2 Honeywell Advanced Materials
9.2.1 Honeywell Advanced Materials Details
9.2.2 Honeywell Advanced Materials Major Business
9.2.3 Honeywell Advanced Materials Integrated Heat Spreader (IHS) Product and Services
9.2.4 Honeywell Advanced Materials Integrated Heat Spreader (IHS) Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.2.5 Honeywell Advanced Materials Recent Developments/Updates
9.2.6 Honeywell Advanced Materials Competitive Strengths & Weaknesses
9.3 Jentech Precision Industrial
9.3.1 Jentech Precision Industrial Details
9.3.2 Jentech Precision Industrial Major Business
9.3.3 Jentech Precision Industrial Integrated Heat Spreader (IHS) Product and Services
9.3.4 Jentech Precision Industrial Integrated Heat Spreader (IHS) Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.3.5 Jentech Precision Industrial Recent Developments/Updates
9.3.6 Jentech Precision Industrial Competitive Strengths & Weaknesses
9.4 I-Chiun
9.4.1 I-Chiun Details
9.4.2 I-Chiun Major Business
9.4.3 I-Chiun Integrated Heat Spreader (IHS) Product and Services
9.4.4 I-Chiun Integrated Heat Spreader (IHS) Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.4.5 I-Chiun Recent Developments/Updates
9.4.6 I-Chiun Competitive Strengths & Weaknesses
9.5 Favor Precision Technology
9.5.1 Favor Precision Technology Details
9.5.2 Favor Precision Technology Major Business
9.5.3 Favor Precision Technology Integrated Heat Spreader (IHS) Product and Services

+357 96 030922
info@marketpublishers.com

9.5.4 Favor Precision Technology Integrated Heat Spreader (IHS) Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.5.5 Favor Precision Technology Recent Developments/Updates
9.5.6 Favor Precision Technology Competitive Strengths & Weaknesses
9.6 Niching Industrial Corporation
9.6.1 Niching Industrial Corporation Details
9.6.2 Niching Industrial Corporation Major Business
9.6.3 Niching Industrial Corporation Integrated Heat Spreader (IHS) Product and Services
9.6.4 Niching Industrial Corporation Integrated Heat Spreader (IHS) Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.6.5 Niching Industrial Corporation Recent Developments/Updates
9.6.6 Niching Industrial Corporation Competitive Strengths & Weaknesses
9.7 Fastrong Technologies Corp.
9.7.1 Fastrong Technologies Corp. Details
9.7.2 Fastrong Technologies Corp. Major Business
9.7.3 Fastrong Technologies Corp. Integrated Heat Spreader (IHS) Product and Services
9.7.4 Fastrong Technologies Corp. Integrated Heat Spreader (IHS) Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.7.5 Fastrong Technologies Corp. Recent Developments/Updates
9.7.6 Fastrong Technologies Corp. Competitive Strengths & Weaknesses
9.8 ECE (Excel Cell Electronic)
9.8.1 ECE (Excel Cell Electronic) Details
9.8.2 ECE (Excel Cell Electronic) Major Business
9.8.3 ECE (Excel Cell Electronic) Integrated Heat Spreader (IHS) Product and Services
9.8.4 ECE (Excel Cell Electronic) Integrated Heat Spreader (IHS) Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.8.5 ECE (Excel Cell Electronic) Recent Developments/Updates
9.8.6 ECE (Excel Cell Electronic) Competitive Strengths & Weaknesses
9.9 Shandong Ruisi Precision Industry
9.9.1 Shandong Ruisi Precision Industry Details
9.9.2 Shandong Ruisi Precision Industry Major Business
9.9.3 Shandong Ruisi Precision Industry Integrated Heat Spreader (IHS) Product and Services
9.9.4 Shandong Ruisi Precision Industry Integrated Heat Spreader (IHS) Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.9.5 Shandong Ruisi Precision Industry Recent Developments/Updates

+357 96 030922
info@marketpublishers.com

9.9.6 Shandong Ruisi Precision Industry Competitive Strengths & Weaknesses
9.10 HongRiDa Electronics (HRD)
9.10.1 HongRiDa Electronics (HRD) Details
9.10.2 HongRiDa Electronics (HRD) Major Business
9.10.3 HongRiDa Electronics (HRD) Integrated Heat Spreader (IHS) Product and Services
9.10.4 HongRiDa Electronics (HRD) Integrated Heat Spreader (IHS) Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.10.5 HongRiDa Electronics (HRD) Recent Developments/Updates
9.10.6 HongRiDa Electronics (HRD) Competitive Strengths & Weaknesses
9.11 TBT Co., Ltd
9.11.1 TBT Co., Ltd Details
9.11.2 TBT Co., Ltd Major Business
9.11.3 TBT Co., Ltd Integrated Heat Spreader (IHS) Product and Services
9.11.4 TBT Co., Ltd Integrated Heat Spreader (IHS) Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.11.5 TBT Co., Ltd Recent Developments/Updates
9.11.6 TBT Co., Ltd Competitive Strengths & Weaknesses
9.12 Ningbo S J Electronics
9.12.1 Ningbo S J Electronics Details
9.12.2 Ningbo S J Electronics Major Business
9.12.3 Ningbo S J Electronics Integrated Heat Spreader (IHS) Product and Services
9.12.4 Ningbo S J Electronics Integrated Heat Spreader (IHS) Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.12.5 Ningbo S J Electronics Recent Developments/Updates
9.12.6 Ningbo S J Electronics Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Integrated Heat Spreader (IHS) Industry Chain
10.2 Integrated Heat Spreader (IHS) Upstream Analysis
10.2.1 Integrated Heat Spreader (IHS) Core Raw Materials
10.2.2 Main Manufacturers of Integrated Heat Spreader (IHS) Core Raw Materials
10.3 Midstream Analysis
10.4 Downstream Analysis
10.5 Integrated Heat Spreader (IHS) Production Mode
10.6 Integrated Heat Spreader (IHS) Procurement Model
10.7 Integrated Heat Spreader (IHS) Industry Sales Model and Sales Channels
10.7.1 Integrated Heat Spreader (IHS) Sales Model

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info@marketpublishers.com

10.7.2 Integrated Heat Spreader (IHS) Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology
12.2 Research Process and Data Source
12.3 Disclaimer

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info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. World Integrated Heat Spreader (IHS) Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World Integrated Heat Spreader (IHS) Production Value by Region (2021-2026) & (USD Million)
Table 3. World Integrated Heat Spreader (IHS) Production Value by Region (2027-2032) & (USD Million)
Table 4. World Integrated Heat Spreader (IHS) Production Value Market Share by Region (2021-2026)
Table 5. World Integrated Heat Spreader (IHS) Production Value Market Share by Region (2027-2032)
Table 6. World Integrated Heat Spreader (IHS) Production by Region (2021-2026) & (Million Pcs)
Table 7. World Integrated Heat Spreader (IHS) Production by Region (2027-2032) & (Million Pcs)
Table 8. World Integrated Heat Spreader (IHS) Production Market Share by Region (2021-2026)
Table 9. World Integrated Heat Spreader (IHS) Production Market Share by Region (2027-2032)
Table 10. World Integrated Heat Spreader (IHS) Average Price by Region (2021-2026) & (US$/Pcs)
Table 11. World Integrated Heat Spreader (IHS) Average Price by Region (2027-2032) & (US$/Pcs)
Table 12. Integrated Heat Spreader (IHS) Major Market Trends
Table 13. World Integrated Heat Spreader (IHS) Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Pcs)
Table 14. World Integrated Heat Spreader (IHS) Consumption by Region (2021-2026) & (Million Pcs)
Table 15. World Integrated Heat Spreader (IHS) Consumption Forecast by Region (2027-2032) & (Million Pcs)
Table 16. World Integrated Heat Spreader (IHS) Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key Integrated Heat Spreader (IHS) Producers in 2025
Table 18. World Integrated Heat Spreader (IHS) Production by Manufacturer (2021-2026) & (Million Pcs)

+357 96 030922
info@marketpublishers.com

Table 19. Production Market Share of Key Integrated Heat Spreader (IHS) Producers in 2025
Table 20. World Integrated Heat Spreader (IHS) Average Price by Manufacturer (2021-2026) & (US$/Pcs)
Table 21. Global Integrated Heat Spreader (IHS) Company Evaluation Quadrant
Table 22. World Integrated Heat Spreader (IHS) Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and Integrated Heat Spreader (IHS) Production Site of Key Manufacturer
Table 24. Integrated Heat Spreader (IHS) Market: Company Product Type Footprint
Table 25. Integrated Heat Spreader (IHS) Market: Company Product Application Footprint
Table 26. Integrated Heat Spreader (IHS) Competitive Factors
Table 27. Integrated Heat Spreader (IHS) New Entrant and Capacity Expansion Plans
Table 28. Integrated Heat Spreader (IHS) Mergers & Acquisitions Activity
Table 29. United States VS China Integrated Heat Spreader (IHS) Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Integrated Heat Spreader (IHS) Production Comparison, (2021 & 2025 & 2032) & (Million Pcs)
Table 31. United States VS China Integrated Heat Spreader (IHS) Consumption Comparison, (2021 & 2025 & 2032) & (Million Pcs)
Table 32. United States Based Integrated Heat Spreader (IHS) Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Integrated Heat Spreader (IHS) Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Integrated Heat Spreader (IHS) Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Integrated Heat Spreader (IHS) Production (2021-2026) & (Million Pcs)
Table 36. United States Based Manufacturers Integrated Heat Spreader (IHS) Production Market Share (2021-2026)
Table 37. China Based Integrated Heat Spreader (IHS) Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Integrated Heat Spreader (IHS) Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Integrated Heat Spreader (IHS) Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Integrated Heat Spreader (IHS) Production, (2021-2026) & (Million Pcs)

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Table 41. China Based Manufacturers Integrated Heat Spreader (IHS) Production Market Share (2021-2026)
Table 42. Rest of World Based Integrated Heat Spreader (IHS) Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Integrated Heat Spreader (IHS) Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Integrated Heat Spreader (IHS) Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Integrated Heat Spreader (IHS) Production, (2021-2026) & (Million Pcs)
Table 46. Rest of World Based Manufacturers Integrated Heat Spreader (IHS) Production Market Share (2021-2026)
Table 47. World Integrated Heat Spreader (IHS) Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World Integrated Heat Spreader (IHS) Production by Type (2021-2026) & (Million Pcs)
Table 49. World Integrated Heat Spreader (IHS) Production by Type (2027-2032) & (Million Pcs)
Table 50. World Integrated Heat Spreader (IHS) Production Value by Type (2021-2026) & (USD Million)
Table 51. World Integrated Heat Spreader (IHS) Production Value by Type (2027-2032) & (USD Million)
Table 52. World Integrated Heat Spreader (IHS) Average Price by Type (2021-2026) & (US$/Pcs)
Table 53. World Integrated Heat Spreader (IHS) Average Price by Type (2027-2032) & (US$/Pcs)
Table 54. World Integrated Heat Spreader (IHS) Production Value By Size, (USD Million), 2021 & 2025 & 2032
Table 55. World Integrated Heat Spreader (IHS) Production By Size (2021-2026) & (Million Pcs)
Table 56. World Integrated Heat Spreader (IHS) Production By Size (2027-2032) & (Million Pcs)
Table 57. World Integrated Heat Spreader (IHS) Production Value By Size (2021-2026) & (USD Million)
Table 58. World Integrated Heat Spreader (IHS) Production Value By Size (2027-2032) & (USD Million)
Table 59. World Integrated Heat Spreader (IHS) Average Price By Size (2021-2026) & (US$/Pcs)
Table 60. World Integrated Heat Spreader (IHS) Average Price By Size (2027-2032) &

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(US$/Pcs)
Table 61. World Integrated Heat Spreader (IHS) Production Value By Material, (USD Million), 2021 & 2025 & 2032
Table 62. World Integrated Heat Spreader (IHS) Production By Material (2021-2026) & (Million Pcs)
Table 63. World Integrated Heat Spreader (IHS) Production By Material (2027-2032) & (Million Pcs)
Table 64. World Integrated Heat Spreader (IHS) Production Value By Material (2021-2026) & (USD Million)
Table 65. World Integrated Heat Spreader (IHS) Production Value By Material (2027-2032) & (USD Million)
Table 66. World Integrated Heat Spreader (IHS) Average Price By Material (2021-2026) & (US$/Pcs)
Table 67. World Integrated Heat Spreader (IHS) Average Price By Material (2027-2032) & (US$/Pcs)
Table 68. World Integrated Heat Spreader (IHS) Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 69. World Integrated Heat Spreader (IHS) Production by Application (2021-2026) & (Million Pcs)
Table 70. World Integrated Heat Spreader (IHS) Production by Application (2027-2032) & (Million Pcs)
Table 71. World Integrated Heat Spreader (IHS) Production Value by Application (2021-2026) & (USD Million)
Table 72. World Integrated Heat Spreader (IHS) Production Value by Application (2027-2032) & (USD Million)
Table 73. World Integrated Heat Spreader (IHS) Average Price by Application (2021-2026) & (US$/Pcs)
Table 74. World Integrated Heat Spreader (IHS) Average Price by Application (2027-2032) & (US$/Pcs)
Table 75. Shinko Basic Information, Manufacturing Base and Competitors
Table 76. Shinko Major Business
Table 77. Shinko Integrated Heat Spreader (IHS) Product and Services
Table 78. Shinko Integrated Heat Spreader (IHS) Production (Million Pcs), Price (US$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 79. Shinko Recent Developments/Updates
Table 80. Shinko Competitive Strengths & Weaknesses
Table 81. Honeywell Advanced Materials Basic Information, Manufacturing Base and Competitors

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Table 82. Honeywell Advanced Materials Major Business
Table 83. Honeywell Advanced Materials Integrated Heat Spreader (IHS) Product and Services
Table 84. Honeywell Advanced Materials Integrated Heat Spreader (IHS) Production (Million Pcs), Price (US$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Honeywell Advanced Materials Recent Developments/Updates
Table 86. Honeywell Advanced Materials Competitive Strengths & Weaknesses
Table 87. Jentech Precision Industrial Basic Information, Manufacturing Base and Competitors
Table 88. Jentech Precision Industrial Major Business
Table 89. Jentech Precision Industrial Integrated Heat Spreader (IHS) Product and Services
Table 90. Jentech Precision Industrial Integrated Heat Spreader (IHS) Production (Million Pcs), Price (US$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Jentech Precision Industrial Recent Developments/Updates
Table 92. Jentech Precision Industrial Competitive Strengths & Weaknesses
Table 93. I-Chiun Basic Information, Manufacturing Base and Competitors
Table 94. I-Chiun Major Business
Table 95. I-Chiun Integrated Heat Spreader (IHS) Product and Services
Table 96. I-Chiun Integrated Heat Spreader (IHS) Production (Million Pcs), Price (US$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. I-Chiun Recent Developments/Updates
Table 98. I-Chiun Competitive Strengths & Weaknesses
Table 99. Favor Precision Technology Basic Information, Manufacturing Base and Competitors
Table 100. Favor Precision Technology Major Business
Table 101. Favor Precision Technology Integrated Heat Spreader (IHS) Product and Services
Table 102. Favor Precision Technology Integrated Heat Spreader (IHS) Production (Million Pcs), Price (US$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Favor Precision Technology Recent Developments/Updates
Table 104. Favor Precision Technology Competitive Strengths & Weaknesses
Table 105. Niching Industrial Corporation Basic Information, Manufacturing Base and Competitors
Table 106. Niching Industrial Corporation Major Business

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Table 107. Niching Industrial Corporation Integrated Heat Spreader (IHS) Product and Services
Table 108. Niching Industrial Corporation Integrated Heat Spreader (IHS) Production (Million Pcs), Price (US$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Niching Industrial Corporation Recent Developments/Updates
Table 110. Niching Industrial Corporation Competitive Strengths & Weaknesses
Table 111. Fastrong Technologies Corp. Basic Information, Manufacturing Base and Competitors
Table 112. Fastrong Technologies Corp. Major Business
Table 113. Fastrong Technologies Corp. Integrated Heat Spreader (IHS) Product and Services
Table 114. Fastrong Technologies Corp. Integrated Heat Spreader (IHS) Production (Million Pcs), Price (US$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Fastrong Technologies Corp. Recent Developments/Updates
Table 116. Fastrong Technologies Corp. Competitive Strengths & Weaknesses
Table 117. ECE (Excel Cell Electronic) Basic Information, Manufacturing Base and Competitors
Table 118. ECE (Excel Cell Electronic) Major Business
Table 119. ECE (Excel Cell Electronic) Integrated Heat Spreader (IHS) Product and Services
Table 120. ECE (Excel Cell Electronic) Integrated Heat Spreader (IHS) Production (Million Pcs), Price (US$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. ECE (Excel Cell Electronic) Recent Developments/Updates
Table 122. ECE (Excel Cell Electronic) Competitive Strengths & Weaknesses
Table 123. Shandong Ruisi Precision Industry Basic Information, Manufacturing Base and Competitors
Table 124. Shandong Ruisi Precision Industry Major Business
Table 125. Shandong Ruisi Precision Industry Integrated Heat Spreader (IHS) Product and Services
Table 126. Shandong Ruisi Precision Industry Integrated Heat Spreader (IHS) Production (Million Pcs), Price (US$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Shandong Ruisi Precision Industry Recent Developments/Updates
Table 128. Shandong Ruisi Precision Industry Competitive Strengths & Weaknesses
Table 129. HongRiDa Electronics (HRD) Basic Information, Manufacturing Base and Competitors

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Table 130. HongRiDa Electronics (HRD) Major Business
Table 131. HongRiDa Electronics (HRD) Integrated Heat Spreader (IHS) Product and Services
Table 132. HongRiDa Electronics (HRD) Integrated Heat Spreader (IHS) Production (Million Pcs), Price (US$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. HongRiDa Electronics (HRD) Recent Developments/Updates
Table 134. HongRiDa Electronics (HRD) Competitive Strengths & Weaknesses
Table 135. TBT Co., Ltd Basic Information, Manufacturing Base and Competitors
Table 136. TBT Co., Ltd Major Business
Table 137. TBT Co., Ltd Integrated Heat Spreader (IHS) Product and Services
Table 138. TBT Co., Ltd Integrated Heat Spreader (IHS) Production (Million Pcs), Price (US$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. TBT Co., Ltd Recent Developments/Updates
Table 140. TBT Co., Ltd Competitive Strengths & Weaknesses
Table 141. Ningbo S J Electronics Basic Information, Manufacturing Base and Competitors
Table 142. Ningbo S J Electronics Major Business
Table 143. Ningbo S J Electronics Integrated Heat Spreader (IHS) Product and Services
Table 144. Ningbo S J Electronics Integrated Heat Spreader (IHS) Production (Million Pcs), Price (US$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. Ningbo S J Electronics Recent Developments/Updates
Table 146. Ningbo S J Electronics Competitive Strengths & Weaknesses
Table 147. Global Key Players of Integrated Heat Spreader (IHS) Upstream (Raw Materials)
Table 148. Global Integrated Heat Spreader (IHS) Typical Customers
Table 149. Integrated Heat Spreader (IHS) Typical Distributors

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List Of Figures

LIST OF FIGURES

Figure 1. Integrated Heat Spreader (IHS) Picture
Figure 2. World Integrated Heat Spreader (IHS) Production Value: 2021 & 2025 & 2032, (USD Million)
Figure 3. World Integrated Heat Spreader (IHS) Production Value and Forecast (2021-2032) & (USD Million)
Figure 4. World Integrated Heat Spreader (IHS) Production (2021-2032) & (Million Pcs)
Figure 5. World Integrated Heat Spreader (IHS) Average Price (2021-2032) & (US$/Pcs)
Figure 6. World Integrated Heat Spreader (IHS) Production Value Market Share by Region (2021-2032)
Figure 7. World Integrated Heat Spreader (IHS) Production Market Share by Region (2021-2032)
Figure 8. Japan Integrated Heat Spreader (IHS) Production (2021-2032) & (Million Pcs)
Figure 9. China Taiwan Integrated Heat Spreader (IHS) Production (2021-2032) & (Million Pcs)
Figure 10. North America Integrated Heat Spreader (IHS) Production (2021-2032) & (Million Pcs)
Figure 11. China Integrated Heat Spreader (IHS) Production (2021-2032) & (Million Pcs)
Figure 12. Integrated Heat Spreader (IHS) Market Drivers
Figure 13. Factors Affecting Demand
Figure 14. World Integrated Heat Spreader (IHS) Consumption (2021-2032) & (Million Pcs)
Figure 15. World Integrated Heat Spreader (IHS) Consumption Market Share by Region (2021-2032)
Figure 16. United States Integrated Heat Spreader (IHS) Consumption (2021-2032) & (Million Pcs)
Figure 17. China Integrated Heat Spreader (IHS) Consumption (2021-2032) & (Million Pcs)
Figure 18. Europe Integrated Heat Spreader (IHS) Consumption (2021-2032) & (Million Pcs)
Figure 19. Japan Integrated Heat Spreader (IHS) Consumption (2021-2032) & (Million Pcs)
Figure 20. South Korea Integrated Heat Spreader (IHS) Consumption (2021-2032) & (Million Pcs)

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Figure 21. ASEAN Integrated Heat Spreader (IHS) Consumption (2021-2032) & (Million Pcs)
Figure 22. India Integrated Heat Spreader (IHS) Consumption (2021-2032) & (Million Pcs)
Figure 23. Producer Shipments of Integrated Heat Spreader (IHS) by Manufacturer Revenue ($MM) and Market Share (%): 2025
Figure 24. Global Four-firm Concentration Ratios (CR4) for Integrated Heat Spreader (IHS) Markets in 2025
Figure 25. Global Four-firm Concentration Ratios (CR8) for Integrated Heat Spreader (IHS) Markets in 2025
Figure 26. United States VS China: Integrated Heat Spreader (IHS) Production Value Market Share Comparison (2021 & 2025 & 2032)
Figure 27. United States VS China: Integrated Heat Spreader (IHS) Production Market Share Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: Integrated Heat Spreader (IHS) Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 29. United States Based Manufacturers Integrated Heat Spreader (IHS) Production Market Share 2025
Figure 30. China Based Manufacturers Integrated Heat Spreader (IHS) Production Market Share 2025
Figure 31. Rest of World Based Manufacturers Integrated Heat Spreader (IHS) Production Market Share 2025
Figure 32. World Integrated Heat Spreader (IHS) Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 33. World Integrated Heat Spreader (IHS) Production Value Market Share by Type in 2025
Figure 34. Heat Spreader for FC (Flip Chip)
Figure 35. Heat Spreader for BGA
Figure 36. World Integrated Heat Spreader (IHS) Production Market Share by Type (2021-2032)
Figure 37. World Integrated Heat Spreader (IHS) Production Value Market Share by Type (2021-2032)
Figure 38. World Integrated Heat Spreader (IHS) Average Price by Type (2021-2032) & (US$/Pcs)
Figure 39. World Integrated Heat Spreader (IHS) Production Value By Size, (USD Million), 2021 & 2025 & 2032
Figure 40. World Integrated Heat Spreader (IHS) Production Value Market Share By Size in 2025
Figure 41. Large Size (35*35mm and Above)

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Figure 42. Small Size (35*35mm Below)
Figure 43. World Integrated Heat Spreader (IHS) Production Market Share By Size (2021-2032)
Figure 44. World Integrated Heat Spreader (IHS) Production Value Market Share By Size (2021-2032)
Figure 45. World Integrated Heat Spreader (IHS) Average Price By Size (2021-2032) & (US$/Pcs)
Figure 46. World Integrated Heat Spreader (IHS) Production Value By Material, (USD Million), 2021 & 2025 & 2032
Figure 47. World Integrated Heat Spreader (IHS) Production Value Market Share By Material in 2025
Figure 48. Copper Heat Spreader
Figure 49. Stainless Steel Heat Spreader
Figure 50. World Integrated Heat Spreader (IHS) Production Market Share By Material (2021-2032)
Figure 51. World Integrated Heat Spreader (IHS) Production Value Market Share By Material (2021-2032)
Figure 52. World Integrated Heat Spreader (IHS) Average Price By Material (2021-2032) & (US$/Pcs)
Figure 53. World Integrated Heat Spreader (IHS) Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 54. World Integrated Heat Spreader (IHS) Production Value Market Share by Application in 2025
Figure 55. PC CPU/GPU Package
Figure 56. Server/Data Center/AI Chip Package
Figure 57. Automotive SoC/FPGA Package
Figure 58. Gaming Console
Figure 59. Others
Figure 60. World Integrated Heat Spreader (IHS) Production Market Share by Application (2021-2032)
Figure 61. World Integrated Heat Spreader (IHS) Production Value Market Share by Application (2021-2032)
Figure 62. World Integrated Heat Spreader (IHS) Average Price by Application (2021-2032) & (US$/Pcs)
Figure 63. Integrated Heat Spreader (IHS) Industry Chain
Figure 64. Integrated Heat Spreader (IHS) Procurement Model
Figure 65. Integrated Heat Spreader (IHS) Sales Model
Figure 66. Integrated Heat Spreader (IHS) Sales Channels, Direct Sales, and Distribution

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Figure 67. Methodology
Figure 68. Research Process and Data Source

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