

Global Scanning Acoustic Microscopy (SAM) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Scanning Acoustic Microscopy (SAM) market size is expected to reach \$ 390 million by 2032, rising at a market growth of 8.9% CAGR during the forecast period (2026-2032).

In 2025, global Scanning Acoustic Microscopy (SAM) production reached approximately 1,162 units, with a average price of 174.3 K USD/Unit.

Scanning Acoustic Microscopy (SAM) is a non-destructive imaging technique that uses high-frequency sound waves (ultrasound) to visualize the internal structures of materials at a microscopic level. The method involves scanning a specimen with ultrasonic waves, and the resulting reflections are analyzed to create detailed images of features like voids, cracks, delaminations, and material inconsistencies. SAM is particularly useful in inspecting microelectronics, semiconductor devices, and composite materials, as it provides high-resolution, 3D images of the internal structure without damaging the sample. This technique is valuable for quality control, failure analysis, and research in various industries such as electronics, aerospace, and materials science.

Scanning Acoustic Microscopy, also known as SAM, C-SAM or SAT, is a precision non-destructive inspection system that uses high-frequency ultrasonic waves to image the internal structure of materials and devices. The system transmits pulsed acoustic signals into a sample through an ultrasonic transducer, captures reflected or transmitted signals from internal interfaces and defects, and converts them into A-scan, B-scan, C-scan, T-scan or three-dimensional acoustic images through scanning motion control, signal gating and image reconstruction software. Unlike optical microscopy, which is mainly surface-oriented, or X-ray inspection, which relies largely on density contrast, SAM is highly sensitive to internal delamination, voids, cracks, bonding defects, air gaps

and interface failures. It is widely used in semiconductor packaging, power devices, wafer bonding, MEMS, ceramic substrates, composite materials, electronic components and failure analysis. Its core value is to locate hidden internal defects, support reliability screening and control process quality without destroying the sample, making it a key inspection platform for advanced packaging, automotive-grade electronics and high-reliability industrial materials.

Scanning Acoustic Microscopy is an integrated equipment category combining a high-precision mechatronic platform, ultrasonic transducers, high-speed signal electronics, imaging algorithms and application-specific process know-how. Its production model is characterized by low-volume manufacturing, multiple configurations, customization and project-based delivery. Leading manufacturers usually control the system architecture, transducer matching, motion control, pulse-receiver electronics, acoustic image processing, defect-recognition software and application recipes, while parts such as machined structures, linear stages, motion modules, industrial PCs, water circulation units, electrical controls and standard electronic components are often sourced from specialized suppliers. Final assembly, calibration, application tuning and customer acceptance are typically completed in-house by the original equipment manufacturer.

In terms of profitability, the segment generally commands higher gross margins than standard inspection instruments. High-end semiconductor-grade SAM systems may typically achieve 45%–60% gross margins due to stronger barriers in software, probe technology, automation platforms and customer qualification. Standard laboratory systems and mid-range domestic equipment are generally estimated at 35%–50%, while basic, highly price-competitive or integration-led systems may fall around 25%–40%. Upstream suppliers include piezoelectric materials, high-frequency transducers, pulse receivers, precision motion platforms, servo systems, sensors, data acquisition boards, software algorithms and precision-machined components. Midstream players are SAM system manufacturers and integrated solution providers. Downstream demand comes mainly from OSATs, IDMs, wafer fabs, power semiconductor manufacturers, electronic materials companies, research institutes, third-party failure analysis laboratories and industrial NDT users. As advanced packaging and power electronics require stricter internal interface reliability, SAM is evolving from a laboratory analysis tool into a production quality-control and process feedback platform.

Market Development Opportunities & Main Driving Factors

The growth of Scanning Acoustic Microscopy is driven by the parallel expansion of

advanced semiconductor packaging, power devices, automotive-grade electronics and high-reliability material inspection. As AI processors, Chiplets, 2.5D/3D packaging, fan-out packaging, wafer bonding and SiC/GaN power devices accelerate, internal interfaces become denser and material systems become more complex. Conventional visual inspection and single-mode X-ray inspection cannot fully cover risks such as micro-delamination, voids, cracks and bonding defects. SAM can identify internal interface failures non-destructively, which strengthens its role in R&D validation, incoming inspection, production sampling, reliability testing and failure analysis. Continued investment in semiconductor manufacturing, advanced packaging and metrology infrastructure is also moving acoustic microscopy from specialized laboratories into the quality-control systems of packaging houses, power module plants and electronic materials manufacturers.

Market Challenges, Risks & Restraints

The main risks of this industry lie in high technical barriers, long customer qualification cycles, limited product standardization and cyclical downstream capital expenditure. High-end SAM systems require deep know-how in transducer frequency selection, acoustic focusing, signal-to-noise control, motion accuracy, imaging algorithms, water-medium stability, automated handling and multi-material adaptation. Even if new entrants can build prototypes, they still need to pass semiconductor customers' yield, reliability and repeatability evaluations. At the same time, inspection speed, sample adaptability and data interpretation remain key bottlenecks for broader production deployment. When wafer fabs, OSATs or power module manufacturers slow investment, equipment procurement may also be delayed. For mid- and low-end suppliers, price competition, reliance on outsourced core transducers, weak software differentiation and insufficient application support may compress margins and extend customer adoption cycles.

Downstream Demand Trends

Downstream demand will expand from laboratory failure analysis toward a broader model combining R&D validation, production quality control and automated in-line screening. Semiconductor packaging will remain the largest application area, especially in advanced packaging, wafer bonding, MEMS, RF devices and high-end substrate inspection. Incremental demand in power electronics will come from electric vehicles, photovoltaic inverters, energy storage, industrial power supplies and high-voltage modules, where void and delamination control in sintered layers, solder layers, ceramic substrates and package interfaces is increasingly critical. In materials and industrial

applications, demand will focus on internal defect inspection of composites, ceramics, metal welds, bonded structures and high-reliability components. Over the long term, SAM systems will move toward higher frequencies, larger scan areas, faster throughput, automated loading and unloading, AI-based defect recognition, multimodal inspection and MES connectivity. Competition among equipment suppliers will shift from standalone hardware performance to integrated capability in equipment, software, application recipes and data-loop solutions.

This report studies the global Scanning Acoustic Microscopy (SAM) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Scanning Acoustic Microscopy (SAM) 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 Scanning Acoustic Microscopy (SAM) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Scanning Acoustic Microscopy (SAM) total production and demand, 2021-2032, (Units)

Global Scanning Acoustic Microscopy (SAM) total production value, 2021-2032, (USD Million)

Global Scanning Acoustic Microscopy (SAM) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Scanning Acoustic Microscopy (SAM) consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Scanning Acoustic Microscopy (SAM) domestic production, consumption, key domestic manufacturers and share

Global Scanning Acoustic Microscopy (SAM) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Scanning Acoustic Microscopy (SAM) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Scanning Acoustic Microscopy (SAM) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Scanning Acoustic Microscopy (SAM) 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 Nordson, PVA TePla Analytical Systems, Hitachi Power Solutions, SBT Ultrasonic, Jinshang Zhizao Intelligent Technology, Sonix, KSI SAM (IP-holding GmbH), Shanghai Hiwave, PVA TePla OKOS, Suzhou Granda, 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 Scanning Acoustic Microscopy (SAM) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Scanning Acoustic Microscopy (SAM) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Scanning Acoustic Microscopy (SAM) Market, Segmentation by Type:

Max Scanning Speed: ?1000?/s

Max Scanning Speed: 1000?/s

Max Scanning Speed: ?1000?/s

Global Scanning Acoustic Microscopy (SAM) Market, Segmentation by Number of Probes:

Single Probe

Multiple Probes

Global Scanning Acoustic Microscopy (SAM) Market, Segmentation by Work Mode:

Offline Type

Inline Type

Global Scanning Acoustic Microscopy (SAM) Market, Segmentation by Application:

Semiconductor

Material Science

Automotive & Aerospace

Biology & Medical

Others

Companies Profiled:

Nordson

PVA TePla Analytical Systems

Hitachi Power Solutions

SBT Ultrasonic

Jinshang Zhizao Intelligent Technology

Sonix

KSI SAM (IP-holding GmbH)

Shanghai Hiwave

PVA TePla OKOS

Suzhou Granda

Caisheng Technology

Acoulab

AMX Automatrix

Suzhou PTC Optical Instrument

Insight K.K.

Hangzhou Xinjiyuan Semiconductor Equipment

Tessonics

Shanghai Siwei

Guangzhou Doppler Electronic Technologies

Ohlabs

Honda Electronics

The 715th Research Institute of CSSC

Botovision

Key Questions Answered:

1. How big is the global Scanning Acoustic Microscopy (SAM) market?
2. What is the demand of the global Scanning Acoustic Microscopy (SAM) market?
3. What is the year over year growth of the global Scanning Acoustic Microscopy (SAM) market?
4. What is the production and production value of the global Scanning Acoustic Microscopy (SAM) market?
5. Who are the key producers in the global Scanning Acoustic Microscopy (SAM) market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Scanning Acoustic Microscopy (SAM) Demand (2021-2032)
- 2.2 World Scanning Acoustic Microscopy (SAM) Consumption by Region
 - 2.2.1 World Scanning Acoustic Microscopy (SAM) Consumption by Region (2021-2026)
 - 2.2.2 World Scanning Acoustic Microscopy (SAM) Consumption Forecast by Region (2027-2032)
- 2.3 United States Scanning Acoustic Microscopy (SAM) Consumption (2021-2032)
- 2.4 China Scanning Acoustic Microscopy (SAM) Consumption (2021-2032)
- 2.5 Europe Scanning Acoustic Microscopy (SAM) Consumption (2021-2032)
- 2.6 Japan Scanning Acoustic Microscopy (SAM) Consumption (2021-2032)

- 2.7 South Korea Scanning Acoustic Microscopy (SAM) Consumption (2021-2032)
- 2.8 ASEAN Scanning Acoustic Microscopy (SAM) Consumption (2021-2032)
- 2.9 India Scanning Acoustic Microscopy (SAM) Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Scanning Acoustic Microscopy (SAM) Production Value by Manufacturer (2021-2026)
- 3.2 World Scanning Acoustic Microscopy (SAM) Production by Manufacturer (2021-2026)
- 3.3 World Scanning Acoustic Microscopy (SAM) Average Price by Manufacturer (2021-2026)
- 3.4 Scanning Acoustic Microscopy (SAM) Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Scanning Acoustic Microscopy (SAM) Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Scanning Acoustic Microscopy (SAM) in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Scanning Acoustic Microscopy (SAM) in 2025
- 3.6 Scanning Acoustic Microscopy (SAM) Market: Overall Company Footprint Analysis
 - 3.6.1 Scanning Acoustic Microscopy (SAM) Market: Region Footprint
 - 3.6.2 Scanning Acoustic Microscopy (SAM) Market: Company Product Type Footprint
 - 3.6.3 Scanning Acoustic Microscopy (SAM) 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: Scanning Acoustic Microscopy (SAM) Production Value Comparison
 - 4.1.1 United States VS China: Scanning Acoustic Microscopy (SAM) Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Scanning Acoustic Microscopy (SAM) Production Value

Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Scanning Acoustic Microscopy (SAM) Production Comparison

4.2.1 United States VS China: Scanning Acoustic Microscopy (SAM) Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Scanning Acoustic Microscopy (SAM) Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Scanning Acoustic Microscopy (SAM) Consumption Comparison

4.3.1 United States VS China: Scanning Acoustic Microscopy (SAM) Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Scanning Acoustic Microscopy (SAM) Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Scanning Acoustic Microscopy (SAM) Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Scanning Acoustic Microscopy (SAM) Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Scanning Acoustic Microscopy (SAM) Production Value (2021-2026)

4.4.3 United States Based Manufacturers Scanning Acoustic Microscopy (SAM) Production (2021-2026)

4.5 China Based Scanning Acoustic Microscopy (SAM) Manufacturers and Market Share

4.5.1 China Based Scanning Acoustic Microscopy (SAM) Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Scanning Acoustic Microscopy (SAM) Production Value (2021-2026)

4.5.3 China Based Manufacturers Scanning Acoustic Microscopy (SAM) Production (2021-2026)

4.6 Rest of World Based Scanning Acoustic Microscopy (SAM) Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Scanning Acoustic Microscopy (SAM) Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Scanning Acoustic Microscopy (SAM) Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Scanning Acoustic Microscopy (SAM) Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Scanning Acoustic Microscopy (SAM) Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Max Scanning Speed: ?1000?/s

5.2.2 Max Scanning Speed: 1000?/s

5.2.3 Max Scanning Speed: ?1000?/s

5.3 Market Segment by Type

5.3.1 World Scanning Acoustic Microscopy (SAM) Production by Type (2021-2032)

5.3.2 World Scanning Acoustic Microscopy (SAM) Production Value by Type (2021-2032)

5.3.3 World Scanning Acoustic Microscopy (SAM) Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY NUMBER OF PROBES

6.1 World Scanning Acoustic Microscopy (SAM) Market Size Overview by Number of Probes: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Number of Probes

6.2.1 Single Probe

6.2.2 Multiple Probes

6.3 Market Segment by Number of Probes

6.3.1 World Scanning Acoustic Microscopy (SAM) Production by Number of Probes (2021-2032)

6.3.2 World Scanning Acoustic Microscopy (SAM) Production Value by Number of Probes (2021-2032)

6.3.3 World Scanning Acoustic Microscopy (SAM) Average Price by Number of Probes (2021-2032)

7 MARKET ANALYSIS BY WORK MODE

7.1 World Scanning Acoustic Microscopy (SAM) Market Size Overview by Work Mode: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Work Mode

7.2.1 Offline Type

7.2.2 Inline Type

7.3 Market Segment by Work Mode

7.3.1 World Scanning Acoustic Microscopy (SAM) Production by Work Mode (2021-2032)

7.3.2 World Scanning Acoustic Microscopy (SAM) Production Value by Work Mode

(2021-2032)

7.3.3 World Scanning Acoustic Microscopy (SAM) Average Price by Work Mode

(2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Scanning Acoustic Microscopy (SAM) Market Size Overview by Application:
2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Semiconductor

8.2.2 Material Science

8.2.3 Automotive & Aerospace

8.2.4 Biology & Medical

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Scanning Acoustic Microscopy (SAM) Production by Application

(2021-2032)

8.3.2 World Scanning Acoustic Microscopy (SAM) Production Value by Application

(2021-2032)

8.3.3 World Scanning Acoustic Microscopy (SAM) Average Price by Application

(2021-2032)

9 COMPANY PROFILES

9.1 Nordson

9.1.1 Nordson Details

9.1.2 Nordson Major Business

9.1.3 Nordson Scanning Acoustic Microscopy (SAM) Product and Services

9.1.4 Nordson Scanning Acoustic Microscopy (SAM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Nordson Recent Developments/Updates

9.1.6 Nordson Competitive Strengths & Weaknesses

9.2 PVA TePla Analytical Systems

9.2.1 PVA TePla Analytical Systems Details

9.2.2 PVA TePla Analytical Systems Major Business

9.2.3 PVA TePla Analytical Systems Scanning Acoustic Microscopy (SAM) Product and Services

9.2.4 PVA TePla Analytical Systems Scanning Acoustic Microscopy (SAM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.2.5 PVA TePla Analytical Systems Recent Developments/Updates
- 9.2.6 PVA TePla Analytical Systems Competitive Strengths & Weaknesses
- 9.3 Hitachi Power Solutions
 - 9.3.1 Hitachi Power Solutions Details
 - 9.3.2 Hitachi Power Solutions Major Business
 - 9.3.3 Hitachi Power Solutions Scanning Acoustic Microscopy (SAM) Product and Services
 - 9.3.4 Hitachi Power Solutions Scanning Acoustic Microscopy (SAM) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Hitachi Power Solutions Recent Developments/Updates
 - 9.3.6 Hitachi Power Solutions Competitive Strengths & Weaknesses
- 9.4 SBT Ultrasonic
 - 9.4.1 SBT Ultrasonic Details
 - 9.4.2 SBT Ultrasonic Major Business
 - 9.4.3 SBT Ultrasonic Scanning Acoustic Microscopy (SAM) Product and Services
 - 9.4.4 SBT Ultrasonic Scanning Acoustic Microscopy (SAM) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 SBT Ultrasonic Recent Developments/Updates
 - 9.4.6 SBT Ultrasonic Competitive Strengths & Weaknesses
- 9.5 Jinshang Zhizao Intelligent Technology
 - 9.5.1 Jinshang Zhizao Intelligent Technology Details
 - 9.5.2 Jinshang Zhizao Intelligent Technology Major Business
 - 9.5.3 Jinshang Zhizao Intelligent Technology Scanning Acoustic Microscopy (SAM) Product and Services
 - 9.5.4 Jinshang Zhizao Intelligent Technology Scanning Acoustic Microscopy (SAM) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Jinshang Zhizao Intelligent Technology Recent Developments/Updates
 - 9.5.6 Jinshang Zhizao Intelligent Technology Competitive Strengths & Weaknesses
- 9.6 Sonix
 - 9.6.1 Sonix Details
 - 9.6.2 Sonix Major Business
 - 9.6.3 Sonix Scanning Acoustic Microscopy (SAM) Product and Services
 - 9.6.4 Sonix Scanning Acoustic Microscopy (SAM) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Sonix Recent Developments/Updates
 - 9.6.6 Sonix Competitive Strengths & Weaknesses
- 9.7 KSI SAM (IP-holding GmbH)
 - 9.7.1 KSI SAM (IP-holding GmbH) Details
 - 9.7.2 KSI SAM (IP-holding GmbH) Major Business

9.7.3 KSI SAM (IP-holding GmbH) Scanning Acoustic Microscopy (SAM) Product and Services

9.7.4 KSI SAM (IP-holding GmbH) Scanning Acoustic Microscopy (SAM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 KSI SAM (IP-holding GmbH) Recent Developments/Updates

9.7.6 KSI SAM (IP-holding GmbH) Competitive Strengths & Weaknesses

9.8 Shanghai Hiwave

9.8.1 Shanghai Hiwave Details

9.8.2 Shanghai Hiwave Major Business

9.8.3 Shanghai Hiwave Scanning Acoustic Microscopy (SAM) Product and Services

9.8.4 Shanghai Hiwave Scanning Acoustic Microscopy (SAM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Shanghai Hiwave Recent Developments/Updates

9.8.6 Shanghai Hiwave Competitive Strengths & Weaknesses

9.9 PVA TePla OKOS

9.9.1 PVA TePla OKOS Details

9.9.2 PVA TePla OKOS Major Business

9.9.3 PVA TePla OKOS Scanning Acoustic Microscopy (SAM) Product and Services

9.9.4 PVA TePla OKOS Scanning Acoustic Microscopy (SAM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 PVA TePla OKOS Recent Developments/Updates

9.9.6 PVA TePla OKOS Competitive Strengths & Weaknesses

9.10 Suzhou Granda

9.10.1 Suzhou Granda Details

9.10.2 Suzhou Granda Major Business

9.10.3 Suzhou Granda Scanning Acoustic Microscopy (SAM) Product and Services

9.10.4 Suzhou Granda Scanning Acoustic Microscopy (SAM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Suzhou Granda Recent Developments/Updates

9.10.6 Suzhou Granda Competitive Strengths & Weaknesses

9.11 Caisheng Technology

9.11.1 Caisheng Technology Details

9.11.2 Caisheng Technology Major Business

9.11.3 Caisheng Technology Scanning Acoustic Microscopy (SAM) Product and Services

9.11.4 Caisheng Technology Scanning Acoustic Microscopy (SAM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Caisheng Technology Recent Developments/Updates

9.11.6 Caisheng Technology Competitive Strengths & Weaknesses

9.12 Acoulab

9.12.1 Acoulab Details

9.12.2 Acoulab Major Business

9.12.3 Acoulab Scanning Acoustic Microscopy (SAM) Product and Services

9.12.4 Acoulab Scanning Acoustic Microscopy (SAM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Acoulab Recent Developments/Updates

9.12.6 Acoulab Competitive Strengths & Weaknesses

9.13 AMX Automatrix

9.13.1 AMX Automatrix Details

9.13.2 AMX Automatrix Major Business

9.13.3 AMX Automatrix Scanning Acoustic Microscopy (SAM) Product and Services

9.13.4 AMX Automatrix Scanning Acoustic Microscopy (SAM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 AMX Automatrix Recent Developments/Updates

9.13.6 AMX Automatrix Competitive Strengths & Weaknesses

9.14 Suzhou PTC Optical Instrument

9.14.1 Suzhou PTC Optical Instrument Details

9.14.2 Suzhou PTC Optical Instrument Major Business

9.14.3 Suzhou PTC Optical Instrument Scanning Acoustic Microscopy (SAM) Product and Services

9.14.4 Suzhou PTC Optical Instrument Scanning Acoustic Microscopy (SAM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Suzhou PTC Optical Instrument Recent Developments/Updates

9.14.6 Suzhou PTC Optical Instrument Competitive Strengths & Weaknesses

9.15 Insight K.K.

9.15.1 Insight K.K. Details

9.15.2 Insight K.K. Major Business

9.15.3 Insight K.K. Scanning Acoustic Microscopy (SAM) Product and Services

9.15.4 Insight K.K. Scanning Acoustic Microscopy (SAM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Insight K.K. Recent Developments/Updates

9.15.6 Insight K.K. Competitive Strengths & Weaknesses

9.16 Hangzhou Xinjiyuan Semiconductor Equipment

9.16.1 Hangzhou Xinjiyuan Semiconductor Equipment Details

9.16.2 Hangzhou Xinjiyuan Semiconductor Equipment Major Business

9.16.3 Hangzhou Xinjiyuan Semiconductor Equipment Scanning Acoustic Microscopy (SAM) Product and Services

9.16.4 Hangzhou Xinjiyuan Semiconductor Equipment Scanning Acoustic Microscopy

(SAM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 Hangzhou Xinjiyuan Semiconductor Equipment Recent Developments/Updates

9.16.6 Hangzhou Xinjiyuan Semiconductor Equipment Competitive Strengths & Weaknesses

9.17 Tessonics

9.17.1 Tessonics Details

9.17.2 Tessonics Major Business

9.17.3 Tessonics Scanning Acoustic Microscopy (SAM) Product and Services

9.17.4 Tessonics Scanning Acoustic Microscopy (SAM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 Tessonics Recent Developments/Updates

9.17.6 Tessonics Competitive Strengths & Weaknesses

9.18 Shanghai Siwei

9.18.1 Shanghai Siwei Details

9.18.2 Shanghai Siwei Major Business

9.18.3 Shanghai Siwei Scanning Acoustic Microscopy (SAM) Product and Services

9.18.4 Shanghai Siwei Scanning Acoustic Microscopy (SAM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.18.5 Shanghai Siwei Recent Developments/Updates

9.18.6 Shanghai Siwei Competitive Strengths & Weaknesses

9.19 Guangzhou Doppler Electronic Technologies

9.19.1 Guangzhou Doppler Electronic Technologies Details

9.19.2 Guangzhou Doppler Electronic Technologies Major Business

9.19.3 Guangzhou Doppler Electronic Technologies Scanning Acoustic Microscopy (SAM) Product and Services

9.19.4 Guangzhou Doppler Electronic Technologies Scanning Acoustic Microscopy (SAM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.19.5 Guangzhou Doppler Electronic Technologies Recent Developments/Updates

9.19.6 Guangzhou Doppler Electronic Technologies Competitive Strengths & Weaknesses

9.20 Ohlabs

9.20.1 Ohlabs Details

9.20.2 Ohlabs Major Business

9.20.3 Ohlabs Scanning Acoustic Microscopy (SAM) Product and Services

9.20.4 Ohlabs Scanning Acoustic Microscopy (SAM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.20.5 Ohlabs Recent Developments/Updates

9.20.6 Ohlabs Competitive Strengths & Weaknesses

9.21 Honda Electronics

- 9.21.1 Honda Electronics Details
- 9.21.2 Honda Electronics Major Business
- 9.21.3 Honda Electronics Scanning Acoustic Microscopy (SAM) Product and Services
- 9.21.4 Honda Electronics Scanning Acoustic Microscopy (SAM) Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.21.5 Honda Electronics Recent Developments/Updates
- 9.21.6 Honda Electronics Competitive Strengths & Weaknesses
- 9.22 The 715th Research Institute of CSSC
 - 9.22.1 The 715th Research Institute of CSSC Details
 - 9.22.2 The 715th Research Institute of CSSC Major Business
 - 9.22.3 The 715th Research Institute of CSSC Scanning Acoustic Microscopy (SAM) Product and Services
 - 9.22.4 The 715th Research Institute of CSSC Scanning Acoustic Microscopy (SAM) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.22.5 The 715th Research Institute of CSSC Recent Developments/Updates
 - 9.22.6 The 715th Research Institute of CSSC Competitive Strengths & Weaknesses
- 9.23 Botovision
 - 9.23.1 Botovision Details
 - 9.23.2 Botovision Major Business
 - 9.23.3 Botovision Scanning Acoustic Microscopy (SAM) Product and Services
 - 9.23.4 Botovision Scanning Acoustic Microscopy (SAM) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.23.5 Botovision Recent Developments/Updates
 - 9.23.6 Botovision Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Scanning Acoustic Microscopy (SAM) Industry Chain
- 10.2 Scanning Acoustic Microscopy (SAM) Upstream Analysis
 - 10.2.1 Scanning Acoustic Microscopy (SAM) Core Raw Materials
 - 10.2.2 Main Manufacturers of Scanning Acoustic Microscopy (SAM) Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Scanning Acoustic Microscopy (SAM) Production Mode
- 10.6 Scanning Acoustic Microscopy (SAM) Procurement Model
- 10.7 Scanning Acoustic Microscopy (SAM) Industry Sales Model and Sales Channels
 - 10.7.1 Scanning Acoustic Microscopy (SAM) Sales Model
 - 10.7.2 Scanning Acoustic Microscopy (SAM) Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Scanning Acoustic Microscopy (SAM) Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Scanning Acoustic Microscopy (SAM) Production Value by Region (2021-2026) & (USD Million)

Table 3. World Scanning Acoustic Microscopy (SAM) Production Value by Region (2027-2032) & (USD Million)

Table 4. World Scanning Acoustic Microscopy (SAM) Production Value Market Share by Region (2021-2026)

Table 5. World Scanning Acoustic Microscopy (SAM) Production Value Market Share by Region (2027-2032)

Table 6. World Scanning Acoustic Microscopy (SAM) Production by Region (2021-2026) & (Units)

Table 7. World Scanning Acoustic Microscopy (SAM) Production by Region (2027-2032) & (Units)

Table 8. World Scanning Acoustic Microscopy (SAM) Production Market Share by Region (2021-2026)

Table 9. World Scanning Acoustic Microscopy (SAM) Production Market Share by Region (2027-2032)

Table 10. World Scanning Acoustic Microscopy (SAM) Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World Scanning Acoustic Microscopy (SAM) Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. Scanning Acoustic Microscopy (SAM) Major Market Trends

Table 13. World Scanning Acoustic Microscopy (SAM) Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Scanning Acoustic Microscopy (SAM) Consumption by Region (2021-2026) & (Units)

Table 15. World Scanning Acoustic Microscopy (SAM) Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Scanning Acoustic Microscopy (SAM) Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Scanning Acoustic Microscopy (SAM) Producers in 2025

Table 18. World Scanning Acoustic Microscopy (SAM) Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Scanning Acoustic Microscopy (SAM) Producers in 2025

Table 20. World Scanning Acoustic Microscopy (SAM) Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global Scanning Acoustic Microscopy (SAM) Company Evaluation Quadrant

Table 22. World Scanning Acoustic Microscopy (SAM) Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Scanning Acoustic Microscopy (SAM) Production Site of Key Manufacturer

Table 24. Scanning Acoustic Microscopy (SAM) Market: Company Product Type Footprint

Table 25. Scanning Acoustic Microscopy (SAM) Market: Company Product Application Footprint

Table 26. Scanning Acoustic Microscopy (SAM) Competitive Factors

Table 27. Scanning Acoustic Microscopy (SAM) New Entrant and Capacity Expansion Plans

Table 28. Scanning Acoustic Microscopy (SAM) Mergers & Acquisitions Activity

Table 29. United States VS China Scanning Acoustic Microscopy (SAM) Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Scanning Acoustic Microscopy (SAM) Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Scanning Acoustic Microscopy (SAM) Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Scanning Acoustic Microscopy (SAM) Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Scanning Acoustic Microscopy (SAM) Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Scanning Acoustic Microscopy (SAM) Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Scanning Acoustic Microscopy (SAM) Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Scanning Acoustic Microscopy (SAM) Production Market Share (2021-2026)

Table 37. China Based Scanning Acoustic Microscopy (SAM) Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Scanning Acoustic Microscopy (SAM) Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Scanning Acoustic Microscopy (SAM) Production Value Market Share (2021-2026)

- Table 40. China Based Manufacturers Scanning Acoustic Microscopy (SAM) Production, (2021-2026) & (Units)
- Table 41. China Based Manufacturers Scanning Acoustic Microscopy (SAM) Production Market Share (2021-2026)
- Table 42. Rest of World Based Scanning Acoustic Microscopy (SAM) Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers Scanning Acoustic Microscopy (SAM) Production Value, (2021-2026) & (USD Million)
- Table 44. Rest of World Based Manufacturers Scanning Acoustic Microscopy (SAM) Production Value Market Share (2021-2026)
- Table 45. Rest of World Based Manufacturers Scanning Acoustic Microscopy (SAM) Production, (2021-2026) & (Units)
- Table 46. Rest of World Based Manufacturers Scanning Acoustic Microscopy (SAM) Production Market Share (2021-2026)
- Table 47. World Scanning Acoustic Microscopy (SAM) Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 48. World Scanning Acoustic Microscopy (SAM) Production by Type (2021-2026) & (Units)
- Table 49. World Scanning Acoustic Microscopy (SAM) Production by Type (2027-2032) & (Units)
- Table 50. World Scanning Acoustic Microscopy (SAM) Production Value by Type (2021-2026) & (USD Million)
- Table 51. World Scanning Acoustic Microscopy (SAM) Production Value by Type (2027-2032) & (USD Million)
- Table 52. World Scanning Acoustic Microscopy (SAM) Average Price by Type (2021-2026) & (K US\$/Unit)
- Table 53. World Scanning Acoustic Microscopy (SAM) Average Price by Type (2027-2032) & (K US\$/Unit)
- Table 54. World Scanning Acoustic Microscopy (SAM) Production Value by Number of Probes, (USD Million), 2021 & 2025 & 2032
- Table 55. World Scanning Acoustic Microscopy (SAM) Production by Number of Probes (2021-2026) & (Units)
- Table 56. World Scanning Acoustic Microscopy (SAM) Production by Number of Probes (2027-2032) & (Units)
- Table 57. World Scanning Acoustic Microscopy (SAM) Production Value by Number of Probes (2021-2026) & (USD Million)
- Table 58. World Scanning Acoustic Microscopy (SAM) Production Value by Number of Probes (2027-2032) & (USD Million)
- Table 59. World Scanning Acoustic Microscopy (SAM) Average Price by Number of

Probes (2021-2026) & (K US\$/Unit)

Table 60. World Scanning Acoustic Microscopy (SAM) Average Price by Number of Probes (2027-2032) & (K US\$/Unit)

Table 61. World Scanning Acoustic Microscopy (SAM) Production Value by Work Mode, (USD Million), 2021 & 2025 & 2032

Table 62. World Scanning Acoustic Microscopy (SAM) Production by Work Mode (2021-2026) & (Units)

Table 63. World Scanning Acoustic Microscopy (SAM) Production by Work Mode (2027-2032) & (Units)

Table 64. World Scanning Acoustic Microscopy (SAM) Production Value by Work Mode (2021-2026) & (USD Million)

Table 65. World Scanning Acoustic Microscopy (SAM) Production Value by Work Mode (2027-2032) & (USD Million)

Table 66. World Scanning Acoustic Microscopy (SAM) Average Price by Work Mode (2021-2026) & (K US\$/Unit)

Table 67. World Scanning Acoustic Microscopy (SAM) Average Price by Work Mode (2027-2032) & (K US\$/Unit)

Table 68. World Scanning Acoustic Microscopy (SAM) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Scanning Acoustic Microscopy (SAM) Production by Application (2021-2026) & (Units)

Table 70. World Scanning Acoustic Microscopy (SAM) Production by Application (2027-2032) & (Units)

Table 71. World Scanning Acoustic Microscopy (SAM) Production Value by Application (2021-2026) & (USD Million)

Table 72. World Scanning Acoustic Microscopy (SAM) Production Value by Application (2027-2032) & (USD Million)

Table 73. World Scanning Acoustic Microscopy (SAM) Average Price by Application (2021-2026) & (K US\$/Unit)

Table 74. World Scanning Acoustic Microscopy (SAM) Average Price by Application (2027-2032) & (K US\$/Unit)

Table 75. Nordson Basic Information, Manufacturing Base and Competitors

Table 76. Nordson Major Business

Table 77. Nordson Scanning Acoustic Microscopy (SAM) Product and Services

Table 78. Nordson Scanning Acoustic Microscopy (SAM) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Nordson Recent Developments/Updates

Table 80. Nordson Competitive Strengths & Weaknesses

Table 81. PVA TePla Analytical Systems Basic Information, Manufacturing Base and Competitors

Table 82. PVA TePla Analytical Systems Major Business

Table 83. PVA TePla Analytical Systems Scanning Acoustic Microscopy (SAM) Product and Services

Table 84. PVA TePla Analytical Systems Scanning Acoustic Microscopy (SAM) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. PVA TePla Analytical Systems Recent Developments/Updates

Table 86. PVA TePla Analytical Systems Competitive Strengths & Weaknesses

Table 87. Hitachi Power Solutions Basic Information, Manufacturing Base and Competitors

Table 88. Hitachi Power Solutions Major Business

Table 89. Hitachi Power Solutions Scanning Acoustic Microscopy (SAM) Product and Services

Table 90. Hitachi Power Solutions Scanning Acoustic Microscopy (SAM) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Hitachi Power Solutions Recent Developments/Updates

Table 92. Hitachi Power Solutions Competitive Strengths & Weaknesses

Table 93. SBT Ultrasonic Basic Information, Manufacturing Base and Competitors

Table 94. SBT Ultrasonic Major Business

Table 95. SBT Ultrasonic Scanning Acoustic Microscopy (SAM) Product and Services

Table 96. SBT Ultrasonic Scanning Acoustic Microscopy (SAM) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. SBT Ultrasonic Recent Developments/Updates

Table 98. SBT Ultrasonic Competitive Strengths & Weaknesses

Table 99. Jinshang Zhizao Intelligent Technology Basic Information, Manufacturing Base and Competitors

Table 100. Jinshang Zhizao Intelligent Technology Major Business

Table 101. Jinshang Zhizao Intelligent Technology Scanning Acoustic Microscopy (SAM) Product and Services

Table 102. Jinshang Zhizao Intelligent Technology Scanning Acoustic Microscopy (SAM) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Jinshang Zhizao Intelligent Technology Recent Developments/Updates

Table 104. Jinshang Zhizao Intelligent Technology Competitive Strengths & Weaknesses

- Table 105. Sonix Basic Information, Manufacturing Base and Competitors
- Table 106. Sonix Major Business
- Table 107. Sonix Scanning Acoustic Microscopy (SAM) Product and Services
- Table 108. Sonix Scanning Acoustic Microscopy (SAM) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Sonix Recent Developments/Updates
- Table 110. Sonix Competitive Strengths & Weaknesses
- Table 111. KSI SAM (IP-holding GmbH) Basic Information, Manufacturing Base and Competitors
- Table 112. KSI SAM (IP-holding GmbH) Major Business
- Table 113. KSI SAM (IP-holding GmbH) Scanning Acoustic Microscopy (SAM) Product and Services
- Table 114. KSI SAM (IP-holding GmbH) Scanning Acoustic Microscopy (SAM) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. KSI SAM (IP-holding GmbH) Recent Developments/Updates
- Table 116. KSI SAM (IP-holding GmbH) Competitive Strengths & Weaknesses
- Table 117. Shanghai Hiwave Basic Information, Manufacturing Base and Competitors
- Table 118. Shanghai Hiwave Major Business
- Table 119. Shanghai Hiwave Scanning Acoustic Microscopy (SAM) Product and Services
- Table 120. Shanghai Hiwave Scanning Acoustic Microscopy (SAM) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Shanghai Hiwave Recent Developments/Updates
- Table 122. Shanghai Hiwave Competitive Strengths & Weaknesses
- Table 123. PVA TePla OKOS Basic Information, Manufacturing Base and Competitors
- Table 124. PVA TePla OKOS Major Business
- Table 125. PVA TePla OKOS Scanning Acoustic Microscopy (SAM) Product and Services
- Table 126. PVA TePla OKOS Scanning Acoustic Microscopy (SAM) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. PVA TePla OKOS Recent Developments/Updates
- Table 128. PVA TePla OKOS Competitive Strengths & Weaknesses
- Table 129. Suzhou Granda Basic Information, Manufacturing Base and Competitors
- Table 130. Suzhou Granda Major Business
- Table 131. Suzhou Granda Scanning Acoustic Microscopy (SAM) Product and Services

Table 132. Suzhou Granda Scanning Acoustic Microscopy (SAM) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Suzhou Granda Recent Developments/Updates

Table 134. Suzhou Granda Competitive Strengths & Weaknesses

Table 135. Caisheng Technology Basic Information, Manufacturing Base and Competitors

Table 136. Caisheng Technology Major Business

Table 137. Caisheng Technology Scanning Acoustic Microscopy (SAM) Product and Services

Table 138. Caisheng Technology Scanning Acoustic Microscopy (SAM) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Caisheng Technology Recent Developments/Updates

Table 140. Caisheng Technology Competitive Strengths & Weaknesses

Table 141. Acoulab Basic Information, Manufacturing Base and Competitors

Table 142. Acoulab Major Business

Table 143. Acoulab Scanning Acoustic Microscopy (SAM) Product and Services

Table 144. Acoulab Scanning Acoustic Microscopy (SAM) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Acoulab Recent Developments/Updates

Table 146. Acoulab Competitive Strengths & Weaknesses

Table 147. AMX Automatrix Basic Information, Manufacturing Base and Competitors

Table 148. AMX Automatrix Major Business

Table 149. AMX Automatrix Scanning Acoustic Microscopy (SAM) Product and Services

Table 150. AMX Automatrix Scanning Acoustic Microscopy (SAM) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. AMX Automatrix Recent Developments/Updates

Table 152. AMX Automatrix Competitive Strengths & Weaknesses

Table 153. Suzhou PTC Optical Instrument Basic Information, Manufacturing Base and Competitors

Table 154. Suzhou PTC Optical Instrument Major Business

Table 155. Suzhou PTC Optical Instrument Scanning Acoustic Microscopy (SAM) Product and Services

Table 156. Suzhou PTC Optical Instrument Scanning Acoustic Microscopy (SAM) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 157. Suzhou PTC Optical Instrument Recent Developments/Updates
- Table 158. Suzhou PTC Optical Instrument Competitive Strengths & Weaknesses
- Table 159. Insight K.K. Basic Information, Manufacturing Base and Competitors
- Table 160. Insight K.K. Major Business
- Table 161. Insight K.K. Scanning Acoustic Microscopy (SAM) Product and Services
- Table 162. Insight K.K. Scanning Acoustic Microscopy (SAM) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 163. Insight K.K. Recent Developments/Updates
- Table 164. Insight K.K. Competitive Strengths & Weaknesses
- Table 165. Hangzhou Xinjiyuan Semiconductor Equipment Basic Information, Manufacturing Base and Competitors
- Table 166. Hangzhou Xinjiyuan Semiconductor Equipment Major Business
- Table 167. Hangzhou Xinjiyuan Semiconductor Equipment Scanning Acoustic Microscopy (SAM) Product and Services
- Table 168. Hangzhou Xinjiyuan Semiconductor Equipment Scanning Acoustic Microscopy (SAM) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 169. Hangzhou Xinjiyuan Semiconductor Equipment Recent Developments/Updates
- Table 170. Hangzhou Xinjiyuan Semiconductor Equipment Competitive Strengths & Weaknesses
- Table 171. Tessonics Basic Information, Manufacturing Base and Competitors
- Table 172. Tessonics Major Business
- Table 173. Tessonics Scanning Acoustic Microscopy (SAM) Product and Services
- Table 174. Tessonics Scanning Acoustic Microscopy (SAM) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 175. Tessonics Recent Developments/Updates
- Table 176. Tessonics Competitive Strengths & Weaknesses
- Table 177. Shanghai Siwei Basic Information, Manufacturing Base and Competitors
- Table 178. Shanghai Siwei Major Business
- Table 179. Shanghai Siwei Scanning Acoustic Microscopy (SAM) Product and Services
- Table 180. Shanghai Siwei Scanning Acoustic Microscopy (SAM) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 181. Shanghai Siwei Recent Developments/Updates
- Table 182. Shanghai Siwei Competitive Strengths & Weaknesses
- Table 183. Guangzhou Doppler Electronic Technologies Basic Information,

Manufacturing Base and Competitors

Table 184. Guangzhou Doppler Electronic Technologies Major Business

Table 185. Guangzhou Doppler Electronic Technologies Scanning Acoustic Microscopy (SAM) Product and Services

Table 186. Guangzhou Doppler Electronic Technologies Scanning Acoustic Microscopy (SAM) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Guangzhou Doppler Electronic Technologies Recent Developments/Updates

Table 188. Guangzhou Doppler Electronic Technologies Competitive Strengths & Weaknesses

Table 189. Ohlabs Basic Information, Manufacturing Base and Competitors

Table 190. Ohlabs Major Business

Table 191. Ohlabs Scanning Acoustic Microscopy (SAM) Product and Services

Table 192. Ohlabs Scanning Acoustic Microscopy (SAM) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. Ohlabs Recent Developments/Updates

Table 194. Ohlabs Competitive Strengths & Weaknesses

Table 195. Honda Electronics Basic Information, Manufacturing Base and Competitors

Table 196. Honda Electronics Major Business

Table 197. Honda Electronics Scanning Acoustic Microscopy (SAM) Product and Services

Table 198. Honda Electronics Scanning Acoustic Microscopy (SAM) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199. Honda Electronics Recent Developments/Updates

Table 200. Honda Electronics Competitive Strengths & Weaknesses

Table 201. The 715th Research Institute of CSSC Basic Information, Manufacturing Base and Competitors

Table 202. The 715th Research Institute of CSSC Major Business

Table 203. The 715th Research Institute of CSSC Scanning Acoustic Microscopy (SAM) Product and Services

Table 204. The 715th Research Institute of CSSC Scanning Acoustic Microscopy (SAM) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 205. The 715th Research Institute of CSSC Recent Developments/Updates

Table 206. The 715th Research Institute of CSSC Competitive Strengths & Weaknesses

Table 207. Botovision Basic Information, Manufacturing Base and Competitors

Table 208. Botovision Major Business

Table 209. Botovision Scanning Acoustic Microscopy (SAM) Product and Services

Table 210. Botovision Scanning Acoustic Microscopy (SAM) Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 211. Botovision Recent Developments/Updates

Table 212. Botovision Competitive Strengths & Weaknesses

Table 213. Global Key Players of Scanning Acoustic Microscopy (SAM) Upstream (Raw Materials)

Table 214. Global Scanning Acoustic Microscopy (SAM) Typical Customers

Table 215. Scanning Acoustic Microscopy (SAM) Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Scanning Acoustic Microscopy (SAM) Picture

Figure 2. World Scanning Acoustic Microscopy (SAM) Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Scanning Acoustic Microscopy (SAM) Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Scanning Acoustic Microscopy (SAM) Production (2021-2032) & (Units)

Figure 5. World Scanning Acoustic Microscopy (SAM) Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World Scanning Acoustic Microscopy (SAM) Production Value Market Share by Region (2021-2032)

Figure 7. World Scanning Acoustic Microscopy (SAM) Production Market Share by Region (2021-2032)

Figure 8. North America Scanning Acoustic Microscopy (SAM) Production (2021-2032) & (Units)

Figure 9. Europe Scanning Acoustic Microscopy (SAM) Production (2021-2032) & (Units)

Figure 10. China Scanning Acoustic Microscopy (SAM) Production (2021-2032) & (Units)

Figure 11. Japan Scanning Acoustic Microscopy (SAM) Production (2021-2032) & (Units)

Figure 12. South Korea Scanning Acoustic Microscopy (SAM) Production (2021-2032) & (Units)

Figure 13. Scanning Acoustic Microscopy (SAM) Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Scanning Acoustic Microscopy (SAM) Consumption (2021-2032) & (Units)

Figure 16. World Scanning Acoustic Microscopy (SAM) Consumption Market Share by Region (2021-2032)

Figure 17. United States Scanning Acoustic Microscopy (SAM) Consumption (2021-2032) & (Units)

Figure 18. China Scanning Acoustic Microscopy (SAM) Consumption (2021-2032) & (Units)

Figure 19. Europe Scanning Acoustic Microscopy (SAM) Consumption (2021-2032) & (Units)

Figure 20. Japan Scanning Acoustic Microscopy (SAM) Consumption (2021-2032) &

(Units)

Figure 21. South Korea Scanning Acoustic Microscopy (SAM) Consumption (2021-2032) & (Units)

Figure 22. ASEAN Scanning Acoustic Microscopy (SAM) Consumption (2021-2032) & (Units)

Figure 23. India Scanning Acoustic Microscopy (SAM) Consumption (2021-2032) & (Units)

Figure 24. Producer Shipments of Scanning Acoustic Microscopy (SAM) by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Scanning Acoustic Microscopy (SAM) Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Scanning Acoustic Microscopy (SAM) Markets in 2025

Figure 27. United States VS China: Scanning Acoustic Microscopy (SAM) Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Scanning Acoustic Microscopy (SAM) Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Scanning Acoustic Microscopy (SAM) Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Scanning Acoustic Microscopy (SAM) Production Market Share 2025

Figure 31. China Based Manufacturers Scanning Acoustic Microscopy (SAM) Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Scanning Acoustic Microscopy (SAM) Production Market Share 2025

Figure 33. World Scanning Acoustic Microscopy (SAM) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Scanning Acoustic Microscopy (SAM) Production Value Market Share by Type in 2025

Figure 35. Max Scanning Speed: ?1000?/s

Figure 36. Max Scanning Speed: 1000?/s

Figure 37. Max Scanning Speed: ?1000?/s

Figure 38. World Scanning Acoustic Microscopy (SAM) Production Market Share by Type (2021-2032)

Figure 39. World Scanning Acoustic Microscopy (SAM) Production Value Market Share by Type (2021-2032)

Figure 40. World Scanning Acoustic Microscopy (SAM) Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 41. World Scanning Acoustic Microscopy (SAM) Production Value by Number of

Probes, (USD Million), 2021 & 2025 & 2032

Figure 42. World Scanning Acoustic Microscopy (SAM) Production Value Market Share by Number of Probes in 2025

Figure 43. Single Probe

Figure 44. Multiple Probes

Figure 45. World Scanning Acoustic Microscopy (SAM) Production Market Share by Number of Probes (2021-2032)

Figure 46. World Scanning Acoustic Microscopy (SAM) Production Value Market Share by Number of Probes (2021-2032)

Figure 47. World Scanning Acoustic Microscopy (SAM) Average Price by Number of Probes (2021-2032) & (K US\$/Unit)

Figure 48. World Scanning Acoustic Microscopy (SAM) Production Value by Work Mode, (USD Million), 2021 & 2025 & 2032

Figure 49. World Scanning Acoustic Microscopy (SAM) Production Value Market Share by Work Mode in 2025

Figure 50. Offline Type

Figure 51. Inline Type

Figure 52. World Scanning Acoustic Microscopy (SAM) Production Market Share by Work Mode (2021-2032)

Figure 53. World Scanning Acoustic Microscopy (SAM) Production Value Market Share by Work Mode (2021-2032)

Figure 54. World Scanning Acoustic Microscopy (SAM) Average Price by Work Mode (2021-2032) & (K US\$/Unit)

Figure 55. World Scanning Acoustic Microscopy (SAM) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Scanning Acoustic Microscopy (SAM) Production Value Market Share by Application in 2025

Figure 57. Semiconductor

Figure 58. Material Science

Figure 59. Automotive & Aerospace

Figure 60. Biology & Medical

Figure 61. Others

Figure 62. World Scanning Acoustic Microscopy (SAM) Production Market Share by Application (2021-2032)

Figure 63. World Scanning Acoustic Microscopy (SAM) Production Value Market Share by Application (2021-2032)

Figure 64. World Scanning Acoustic Microscopy (SAM) Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 65. Scanning Acoustic Microscopy (SAM) Industry Chain

Figure 66. Scanning Acoustic Microscopy (SAM) Procurement Model

Figure 67. Scanning Acoustic Microscopy (SAM) Sales Model

Figure 68. Scanning Acoustic Microscopy (SAM) Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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