

Global Surface Acoustic Wave Sensors Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Surface Acoustic Wave Sensors competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. A Surface Acoustic Wave Sensor is a type of sensor that detects changes in a physical parameter (like pressure, temperature, torque, or chemical presence) by using acoustic waves traveling along the surface of a material ? typically a piezoelectric crystal such as quartz or lithium niobate. Surface Acoustic Wave (SAW) Sensors are emerging as a crucial sensing technology due to their unique combination of wireless operation, passive design, high sensitivity, and robust performance in harsh environments. These strengths position SAW sensors to meet the rising demand for real-time monitoring and smart systems across many industries. Below are the key factors driving growth in this market: One of the biggest drivers for SAW sensors is their passive wireless capability ? they do not need an internal power source because they are energized by an external radio frequency (RF) signal. This makes them ideal for hard-to-access or rotating parts, such as inside engines, on turbine blades, or within industrial equipment. Industries like automotive, aerospace, and industrial IoT (IIoT) increasingly need maintenance-free sensors that reduce downtime and wiring complexity. Modern vehicles rely on precise, real-time data to improve safety and efficiency. SAW sensors are widely used in tire pressure monitoring systems, torque sensors, and exhaust gas sensors. As EVs (electric vehicles) and autonomous vehicles become more popular, demand for reliable, lightweight, wireless sensors is increasing. SAW sensors meet these needs without adding significant weight or complexity. The rise of Industry 4.0 pushes industries to deploy more smart sensors for condition monitoring, asset tracking, and predictive maintenance. SAW sensors can be embedded into harsh industrial environments (high temperature, vibration, chemicals) where traditional

sensors might fail. They enable continuous, real-time monitoring without requiring frequent maintenance or wiring upgrades.

The global Surface Acoustic Wave Sensors market size was estimated at USD 110.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 8.10% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Surface Acoustic Wave Sensors market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Surface Acoustic Wave Sensors market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Surface Acoustic Wave Sensors market.

Global Surface Acoustic Wave Sensors Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can

significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Sensideon
Transense
Kyocera AVX
AWSensors
SAW Components Dresden
McLaren Applied
SENSeOR
Sensanna
senTec Electronics
Microsaw
Gotion High-Tech
Teld
Xiangyi Automation
?Zhongnengcong
Dhforce

Market Segmentation (by Type)

Delay-line Type
Resonators Type

Market Segmentation (by Application)

Automotive
Aerospace and Defense
Industrial
Medical
Other

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Surface Acoustic Wave Sensors Market
Overview of the regional outlook of the Surface Acoustic Wave Sensors Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Surface Acoustic Wave Sensors Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Surface Acoustic Wave Sensors, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
This enables you to anticipate market changes to remain ahead of your competitors
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Surface Acoustic Wave Sensors
- 1.2 Key Market Segments
 - 1.2.1 Surface Acoustic Wave Sensors Segment by Type
 - 1.2.2 Surface Acoustic Wave Sensors Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 SURFACE ACOUSTIC WAVE SENSORS MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Surface Acoustic Wave Sensors Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Surface Acoustic Wave Sensors Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 SURFACE ACOUSTIC WAVE SENSORS MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Surface Acoustic Wave Sensors Product Life Cycle
- 3.3 Global Surface Acoustic Wave Sensors Sales by Manufacturers (2020-2025)
- 3.4 Global Surface Acoustic Wave Sensors Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Surface Acoustic Wave Sensors Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Surface Acoustic Wave Sensors Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Surface Acoustic Wave Sensors Market Competitive Situation and Trends
 - 3.8.1 Surface Acoustic Wave Sensors Market Concentration Rate

3.8.2 Global 5 and 10 Largest Surface Acoustic Wave Sensors Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 SURFACE ACOUSTIC WAVE SENSORS INDUSTRY CHAIN ANALYSIS

4.1 Surface Acoustic Wave Sensors Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF SURFACE ACOUSTIC WAVE SENSORS MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Surface Acoustic Wave Sensors Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Surface Acoustic Wave Sensors Market

5.7 ESG Ratings of Leading Companies

6 SURFACE ACOUSTIC WAVE SENSORS MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Surface Acoustic Wave Sensors Sales Market Share by Type (2020-2025)

6.3 Global Surface Acoustic Wave Sensors Market Size by Type (2020-2025)

6.4 Global Surface Acoustic Wave Sensors Price by Type (2020-2025)

7 SURFACE ACOUSTIC WAVE SENSORS MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Surface Acoustic Wave Sensors Market Sales by Application (2020-2025)

7.3 Global Surface Acoustic Wave Sensors Market Size (M USD) by Application (2020-2025)

7.4 Global Surface Acoustic Wave Sensors Sales Growth Rate by Application (2020-2025)

8 SURFACE ACOUSTIC WAVE SENSORS MARKET SALES BY REGION

8.1 Global Surface Acoustic Wave Sensors Sales by Region

8.1.1 Global Surface Acoustic Wave Sensors Sales by Region

8.1.2 Global Surface Acoustic Wave Sensors Sales Market Share by Region

8.2 Global Surface Acoustic Wave Sensors Market Size by Region

8.2.1 Global Surface Acoustic Wave Sensors Market Size by Region

8.2.2 Global Surface Acoustic Wave Sensors Market Size by Region

8.3 North America

8.3.1 North America Surface Acoustic Wave Sensors Sales by Country

8.3.2 North America Surface Acoustic Wave Sensors Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Surface Acoustic Wave Sensors Sales by Country

8.4.2 Europe Surface Acoustic Wave Sensors Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Surface Acoustic Wave Sensors Sales by Region

8.5.2 Asia Pacific Surface Acoustic Wave Sensors Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Surface Acoustic Wave Sensors Sales by Country
 - 8.6.2 South America Surface Acoustic Wave Sensors Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview
 - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Surface Acoustic Wave Sensors Sales by Region
 - 8.7.2 Middle East and Africa Surface Acoustic Wave Sensors Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 SURFACE ACOUSTIC WAVE SENSORS MARKET PRODUCTION BY REGION

- 9.1 Global Production of Surface Acoustic Wave Sensors by Region(2020-2025)
- 9.2 Global Surface Acoustic Wave Sensors Revenue Market Share by Region (2020-2025)
- 9.3 Global Surface Acoustic Wave Sensors Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Surface Acoustic Wave Sensors Production
 - 9.4.1 North America Surface Acoustic Wave Sensors Production Growth Rate (2020-2025)
 - 9.4.2 North America Surface Acoustic Wave Sensors Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Surface Acoustic Wave Sensors Production
 - 9.5.1 Europe Surface Acoustic Wave Sensors Production Growth Rate (2020-2025)
 - 9.5.2 Europe Surface Acoustic Wave Sensors Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Surface Acoustic Wave Sensors Production (2020-2025)
 - 9.6.1 Japan Surface Acoustic Wave Sensors Production Growth Rate (2020-2025)
 - 9.6.2 Japan Surface Acoustic Wave Sensors Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Surface Acoustic Wave Sensors Production (2020-2025)

- 9.7.1 China Surface Acoustic Wave Sensors Production Growth Rate (2020-2025)
- 9.7.2 China Surface Acoustic Wave Sensors Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Sensideon

- 10.1.1 Sensideon Basic Information
- 10.1.2 Sensideon Surface Acoustic Wave Sensors Product Overview
- 10.1.3 Sensideon Surface Acoustic Wave Sensors Product Market Performance
- 10.1.4 Sensideon Business Overview
- 10.1.5 Sensideon SWOT Analysis
- 10.1.6 Sensideon Recent Developments

10.2 Transense

- 10.2.1 Transense Basic Information
- 10.2.2 Transense Surface Acoustic Wave Sensors Product Overview
- 10.2.3 Transense Surface Acoustic Wave Sensors Product Market Performance
- 10.2.4 Transense Business Overview
- 10.2.5 Transense SWOT Analysis
- 10.2.6 Transense Recent Developments

10.3 Kyocera AVX

- 10.3.1 Kyocera AVX Basic Information
- 10.3.2 Kyocera AVX Surface Acoustic Wave Sensors Product Overview
- 10.3.3 Kyocera AVX Surface Acoustic Wave Sensors Product Market Performance
- 10.3.4 Kyocera AVX Business Overview
- 10.3.5 Kyocera AVX SWOT Analysis
- 10.3.6 Kyocera AVX Recent Developments

10.4 AWSensors

- 10.4.1 AWSensors Basic Information
- 10.4.2 AWSensors Surface Acoustic Wave Sensors Product Overview
- 10.4.3 AWSensors Surface Acoustic Wave Sensors Product Market Performance
- 10.4.4 AWSensors Business Overview
- 10.4.5 AWSensors Recent Developments

10.5 SAW Components Dresden

- 10.5.1 SAW Components Dresden Basic Information
- 10.5.2 SAW Components Dresden Surface Acoustic Wave Sensors Product Overview
- 10.5.3 SAW Components Dresden Surface Acoustic Wave Sensors Product Market Performance
- 10.5.4 SAW Components Dresden Business Overview

- 10.5.5 SAW Components Dresden Recent Developments
- 10.6 McLaren Applied
 - 10.6.1 McLaren Applied Basic Information
 - 10.6.2 McLaren Applied Surface Acoustic Wave Sensors Product Overview
 - 10.6.3 McLaren Applied Surface Acoustic Wave Sensors Product Market Performance
 - 10.6.4 McLaren Applied Business Overview
 - 10.6.5 McLaren Applied Recent Developments
- 10.7 SENSEOR
 - 10.7.1 SENSEOR Basic Information
 - 10.7.2 SENSEOR Surface Acoustic Wave Sensors Product Overview
 - 10.7.3 SENSEOR Surface Acoustic Wave Sensors Product Market Performance
 - 10.7.4 SENSEOR Business Overview
 - 10.7.5 SENSEOR Recent Developments
- 10.8 Sensanna
 - 10.8.1 Sensanna Basic Information
 - 10.8.2 Sensanna Surface Acoustic Wave Sensors Product Overview
 - 10.8.3 Sensanna Surface Acoustic Wave Sensors Product Market Performance
 - 10.8.4 Sensanna Business Overview
 - 10.8.5 Sensanna Recent Developments
- 10.9 senTec Electronics
 - 10.9.1 senTec Electronics Basic Information
 - 10.9.2 senTec Electronics Surface Acoustic Wave Sensors Product Overview
 - 10.9.3 senTec Electronics Surface Acoustic Wave Sensors Product Market Performance
 - 10.9.4 senTec Electronics Business Overview
 - 10.9.5 senTec Electronics Recent Developments
- 10.10 Microsaw
 - 10.10.1 Microsaw Basic Information
 - 10.10.2 Microsaw Surface Acoustic Wave Sensors Product Overview
 - 10.10.3 Microsaw Surface Acoustic Wave Sensors Product Market Performance
 - 10.10.4 Microsaw Business Overview
 - 10.10.5 Microsaw Recent Developments
- 10.11 Gotion High-Tech
 - 10.11.1 Gotion High-Tech Basic Information
 - 10.11.2 Gotion High-Tech Surface Acoustic Wave Sensors Product Overview
 - 10.11.3 Gotion High-Tech Surface Acoustic Wave Sensors Product Market Performance
 - 10.11.4 Gotion High-Tech Business Overview
 - 10.11.5 Gotion High-Tech Recent Developments

10.12 Teld

10.12.1 Teld Basic Information

10.12.2 Teld Surface Acoustic Wave Sensors Product Overview

10.12.3 Teld Surface Acoustic Wave Sensors Product Market Performance

10.12.4 Teld Business Overview

10.12.5 Teld Recent Developments

10.13 Xiangyi Automation

10.13.1 Xiangyi Automation Basic Information

10.13.2 Xiangyi Automation Surface Acoustic Wave Sensors Product Overview

10.13.3 Xiangyi Automation Surface Acoustic Wave Sensors Product Market

Performance

10.13.4 Xiangyi Automation Business Overview

10.13.5 Xiangyi Automation Recent Developments

10.14 ?Zhongnengcong

10.14.1 ?Zhongnengcong Basic Information

10.14.2 ?Zhongnengcong Surface Acoustic Wave Sensors Product Overview

10.14.3 ?Zhongnengcong Surface Acoustic Wave Sensors Product Market

Performance

10.14.4 ?Zhongnengcong Business Overview

10.14.5 ?Zhongnengcong Recent Developments

10.15 Dhforce

10.15.1 Dhforce Basic Information

10.15.2 Dhforce Surface Acoustic Wave Sensors Product Overview

10.15.3 Dhforce Surface Acoustic Wave Sensors Product Market Performance

10.15.4 Dhforce Business Overview

10.15.5 Dhforce Recent Developments

11 SURFACE ACOUSTIC WAVE SENSORS MARKET FORECAST BY REGION

11.1 Global Surface Acoustic Wave Sensors Market Size Forecast

11.2 Global Surface Acoustic Wave Sensors Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Surface Acoustic Wave Sensors Market Size Forecast by Country

11.2.3 Asia Pacific Surface Acoustic Wave Sensors Market Size Forecast by Region

11.2.4 South America Surface Acoustic Wave Sensors Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Surface Acoustic Wave Sensors by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Surface Acoustic Wave Sensors Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Surface Acoustic Wave Sensors by Type (2026-2035)

12.1.2 Global Surface Acoustic Wave Sensors Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Surface Acoustic Wave Sensors by Type (2026-2035)

12.2 Global Surface Acoustic Wave Sensors Market Forecast by Application (2026-2035)

12.2.1 Global Surface Acoustic Wave Sensors Sales (K Units) Forecast by Application

12.2.2 Global Surface Acoustic Wave Sensors Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Surface Acoustic Wave Sensors Market Size by Type (M USD)

Table 4. Global Surface Acoustic Wave Sensors Market Size by Application

Table 5. Surface Acoustic Wave Sensors Market Size Comparison by Region (M USD)

Table 6. Global Surface Acoustic Wave Sensors Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Surface Acoustic Wave Sensors Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Surface Acoustic Wave Sensors Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Surface Acoustic Wave Sensors Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Surface Acoustic Wave Sensors as of 2025)

Table 11. Global Market Surface Acoustic Wave Sensors Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Surface Acoustic Wave Sensors Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Surface Acoustic Wave Sensors Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Surface Acoustic Wave Sensors Sales by Type (K Units)

Table 27. Global Surface Acoustic Wave Sensors Market Size by Type (M USD)

- Table 28. Global Surface Acoustic Wave Sensors Sales (K Units) by Type (2020-2025)
- Table 29. Global Surface Acoustic Wave Sensors Sales Market Share by Type (2020-2025)
- Table 30. Global Surface Acoustic Wave Sensors Market Size (M USD) by Type (2020-2025)
- Table 31. Global Surface Acoustic Wave Sensors Market Share by Type (2020-2025)
- Table 32. Global Surface Acoustic Wave Sensors Price (USD/Unit) by Type (2020-2025)
- Table 33. Global Surface Acoustic Wave Sensors Sales (K Units) by Application
- Table 34. Global Surface Acoustic Wave Sensors Market Size by Application
- Table 35. Global Surface Acoustic Wave Sensors Sales by Application (2020-2025) & (K Units)
- Table 36. Global Surface Acoustic Wave Sensors Sales Market Share by Application (2020-2025)
- Table 37. Global Surface Acoustic Wave Sensors Market Size by Application (2020-2025) & (M USD)
- Table 38. Global Surface Acoustic Wave Sensors Market Share by Application (2020-2025)
- Table 39. Global Surface Acoustic Wave Sensors Sales Growth Rate by Application (2020-2025)
- Table 40. Global Surface Acoustic Wave Sensors Sales by Region (2020-2025) & (K Units)
- Table 41. Global Surface Acoustic Wave Sensors Sales Market Share by Region (2020-2025)
- Table 42. Global Surface Acoustic Wave Sensors Market Size by Region (2020-2025) & (M USD)
- Table 43. Global Surface Acoustic Wave Sensors Market Size by Region (2020-2025)
- Table 44. North America Surface Acoustic Wave Sensors Sales by Country (2020-2025) & (K Units)
- Table 45. North America Surface Acoustic Wave Sensors Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe Surface Acoustic Wave Sensors Sales by Country (2020-2025) & (K Units)
- Table 47. Europe Surface Acoustic Wave Sensors Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific Surface Acoustic Wave Sensors Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific Surface Acoustic Wave Sensors Market Size by Region (2020-2025) & (M USD)

- Table 50. South America Surface Acoustic Wave Sensors Sales by Country (2020-2025) & (K Units)
- Table 51. South America Surface Acoustic Wave Sensors Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Surface Acoustic Wave Sensors Sales by Region (2020-2025) & (K Units)
- Table 53. Middle East and Africa Surface Acoustic Wave Sensors Market Size by Region (2020-2025) & (M USD)
- Table 54. Global Surface Acoustic Wave Sensors Production (K Units) by Region(2020-2025)
- Table 55. Global Surface Acoustic Wave Sensors Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global Surface Acoustic Wave Sensors Revenue Market Share by Region (2020-2025)
- Table 57. Global Surface Acoustic Wave Sensors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 58. North America Surface Acoustic Wave Sensors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 59. Europe Surface Acoustic Wave Sensors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 60. Japan Surface Acoustic Wave Sensors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 61. China Surface Acoustic Wave Sensors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 62. Sensideon Basic Information
- Table 63. Sensideon Surface Acoustic Wave Sensors Product Overview
- Table 64. Sensideon Surface Acoustic Wave Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 65. Sensideon Business Overview
- Table 66. Sensideon SWOT Analysis
- Table 67. Sensideon Recent Developments
- Table 68. Transense Basic Information
- Table 69. Transense Surface Acoustic Wave Sensors Product Overview
- Table 70. Transense Surface Acoustic Wave Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 71. Transense Business Overview
- Table 72. Transense SWOT Analysis
- Table 73. Transense Recent Developments
- Table 74. Kyocera AVX Basic Information

- Table 75. Kyocera AVX Surface Acoustic Wave Sensors Product Overview
- Table 76. Kyocera AVX Surface Acoustic Wave Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 77. Kyocera AVX Business Overview
- Table 78. Kyocera AVX SWOT Analysis
- Table 79. Kyocera AVX Recent Developments
- Table 80. AWSensors Basic Information
- Table 81. AWSensors Surface Acoustic Wave Sensors Product Overview
- Table 82. AWSensors Surface Acoustic Wave Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. AWSensors Business Overview
- Table 84. AWSensors Recent Developments
- Table 85. SAW Components Dresden Basic Information
- Table 86. SAW Components Dresden Surface Acoustic Wave Sensors Product Overview
- Table 87. SAW Components Dresden Surface Acoustic Wave Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. SAW Components Dresden Business Overview
- Table 89. SAW Components Dresden Recent Developments
- Table 90. McLaren Applied Basic Information
- Table 91. McLaren Applied Surface Acoustic Wave Sensors Product Overview
- Table 92. McLaren Applied Surface Acoustic Wave Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. McLaren Applied Business Overview
- Table 94. McLaren Applied Recent Developments
- Table 95. SENSEOR Basic Information
- Table 96. SENSEOR Surface Acoustic Wave Sensors Product Overview
- Table 97. SENSEOR Surface Acoustic Wave Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. SENSEOR Business Overview
- Table 99. SENSEOR Recent Developments
- Table 100. Sensanna Basic Information
- Table 101. Sensanna Surface Acoustic Wave Sensors Product Overview
- Table 102. Sensanna Surface Acoustic Wave Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. Sensanna Business Overview
- Table 104. Sensanna Recent Developments
- Table 105. senTec Electronics Basic Information
- Table 106. senTec Electronics Surface Acoustic Wave Sensors Product Overview

- Table 107. senTec Electronics Surface Acoustic Wave Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 108. senTec Electronics Business Overview
- Table 109. senTec Electronics Recent Developments
- Table 110. Microsaw Basic Information
- Table 111. Microsaw Surface Acoustic Wave Sensors Product Overview
- Table 112. Microsaw Surface Acoustic Wave Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 113. Microsaw Business Overview
- Table 114. Microsaw Recent Developments
- Table 115. Gotion High-Tech Basic Information
- Table 116. Gotion High-Tech Surface Acoustic Wave Sensors Product Overview
- Table 117. Gotion High-Tech Surface Acoustic Wave Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 118. Gotion High-Tech Business Overview
- Table 119. Gotion High-Tech Recent Developments
- Table 120. Teld Basic Information
- Table 121. Teld Surface Acoustic Wave Sensors Product Overview
- Table 122. Teld Surface Acoustic Wave Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 123. Teld Business Overview
- Table 124. Teld Recent Developments
- Table 125. Xiangyi Automation Basic Information
- Table 126. Xiangyi Automation Surface Acoustic Wave Sensors Product Overview
- Table 127. Xiangyi Automation Surface Acoustic Wave Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 128. Xiangyi Automation Business Overview
- Table 129. Xiangyi Automation Recent Developments
- Table 130. ?Zhongnengcong Basic Information
- Table 131. ?Zhongnengcong Surface Acoustic Wave Sensors Product Overview
- Table 132. ?Zhongnengcong Surface Acoustic Wave Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 133. ?Zhongnengcong Business Overview
- Table 134. ?Zhongnengcong Recent Developments
- Table 135. Dhforce Basic Information
- Table 136. Dhforce Surface Acoustic Wave Sensors Product Overview
- Table 137. Dhforce Surface Acoustic Wave Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 138. Dhforce Business Overview

- Table 139. Dhforce Recent Developments
- Table 140. Global Surface Acoustic Wave Sensors Sales Forecast by Region (2026-2035) & (K Units)
- Table 141. Global Surface Acoustic Wave Sensors Market Size Forecast by Region (2026-2035) & (M USD)
- Table 142. North America Surface Acoustic Wave Sensors Sales Forecast by Country (2026-2035) & (K Units)
- Table 143. North America Surface Acoustic Wave Sensors Market Size Forecast by Country (2026-2035) & (M USD)
- Table 144. Europe Surface Acoustic Wave Sensors Sales Forecast by Country (2026-2035) & (K Units)
- Table 145. Europe Surface Acoustic Wave Sensors Market Size Forecast by Country (2026-2035) & (M USD)
- Table 146. Asia Pacific Surface Acoustic Wave Sensors Sales Forecast by Region (2026-2035) & (K Units)
- Table 147. Asia Pacific Surface Acoustic Wave Sensors Market Size Forecast by Region (2026-2035) & (M USD)
- Table 148. South America Surface Acoustic Wave Sensors Sales Forecast by Country (2026-2035) & (K Units)
- Table 149. South America Surface Acoustic Wave Sensors Market Size Forecast by Country (2026-2035) & (M USD)
- Table 150. Middle East and Africa Surface Acoustic Wave Sensors Sales Forecast by Country (2026-2035) & (Units)
- Table 151. Middle East and Africa Surface Acoustic Wave Sensors Market Size Forecast by Country (2026-2035) & (M USD)
- Table 152. Global Surface Acoustic Wave Sensors Sales Forecast by Type (2026-2035) & (K Units)
- Table 153. Global Surface Acoustic Wave Sensors Market Size Forecast by Type (2026-2035) & (M USD)
- Table 154. Global Surface Acoustic Wave Sensors Price Forecast by Type (2026-2035) & (USD/Unit)
- Table 155. Global Surface Acoustic Wave Sensors Sales (K Units) Forecast by Application (2026-2035)
- Table 156. Global Surface Acoustic Wave Sensors Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

Figure 1. Product Picture of Surface Acoustic Wave Sensors

Figure 2. Data Triangulation

Figure 3. Key Caveats

Figure 4. Global Surface Acoustic Wave Sensors Market Size (M USD), 2025-2035

Figure 5. Global Surface Acoustic Wave Sensors Market Size (M USD) (2020-2035)

Figure 6. Global Surface Acoustic Wave Sensors Sales (K Units) & (2020-2035)

Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 9. Evaluation Matrix of Regional Market Development Potential

Figure 10. Surface Acoustic Wave Sensors Market Size by Country (M USD)

Figure 11. Company Assessment Quadrant

Figure 12. Global Surface Acoustic Wave Sensors Product Life Cycle

Figure 13. Surface Acoustic Wave Sensors Sales Share by Manufacturers in 2025

Figure 14. Global Surface Acoustic Wave Sensors Revenue Share by Manufacturers in 2025

Figure 15. Surface Acoustic Wave Sensors Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025

Figure 16. Global Market Surface Acoustic Wave Sensors Average Price (USD/Unit) of Key Manufacturers in 2025

Figure 17. The Global 5 and 10 Largest Players: Market Share by Surface Acoustic Wave Sensors Revenue in 2025

Figure 18. Industry Chain Map of Surface Acoustic Wave Sensors

Figure 19. Global Surface Acoustic Wave Sensors Market PEST Analysis

Figure 20. Global Surface Acoustic Wave Sensors Market Porter's Five Forces Analysis

Figure 21. Global Merchandise Trade as a Percentage Of GDP

Figure 22. US - Imports of Goods by Country

Figure 23. China Exports by Country

Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers

Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 26. Global Surface Acoustic Wave Sensors Market Share by Type

Figure 27. Sales Market Share of Surface Acoustic Wave Sensors by Type (2020-2025)

Figure 28. Sales Market Share of Surface Acoustic Wave Sensors by Type in 2025

Figure 29. Market Share of Surface Acoustic Wave Sensors by Type (2020-2025)

Figure 30. Market Share of Surface Acoustic Wave Sensors by Type in 2025

Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Surface Acoustic Wave Sensors Market Share by Application

Figure 33. Global Surface Acoustic Wave Sensors Sales Market Share by Application (2020-2025)

Figure 34. Global Surface Acoustic Wave Sensors Sales Market Share by Application in 2025

Figure 35. Global Surface Acoustic Wave Sensors Market Share by Application (2020-2025)

Figure 36. Global Surface Acoustic Wave Sensors Market Share by Application in 2025

Figure 37. Global Surface Acoustic Wave Sensors Sales Growth Rate by Application (2020-2025)

Figure 38. Global Surface Acoustic Wave Sensors Sales Market Share by Region (2020-2025)

Figure 39. Global Surface Acoustic Wave Sensors Market Size by Region (2020-2025)

Figure 40. North America Surface Acoustic Wave Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Surface Acoustic Wave Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Surface Acoustic Wave Sensors Sales Market Share by Country in 2024

Figure 43. North America Surface Acoustic Wave Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Surface Acoustic Wave Sensors Market Size by Country in 2024

Figure 45. U.S. Surface Acoustic Wave Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Surface Acoustic Wave Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Surface Acoustic Wave Sensors Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Surface Acoustic Wave Sensors Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Surface Acoustic Wave Sensors Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Surface Acoustic Wave Sensors Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Surface Acoustic Wave Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Surface Acoustic Wave Sensors Sales Market Share by Country in 2024

Figure 53. Europe Surface Acoustic Wave Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Surface Acoustic Wave Sensors Market Size by Country in 2024

Figure 55. Germany Surface Acoustic Wave Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Surface Acoustic Wave Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Surface Acoustic Wave Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Surface Acoustic Wave Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Surface Acoustic Wave Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Surface Acoustic Wave Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Surface Acoustic Wave Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Surface Acoustic Wave Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Surface Acoustic Wave Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Surface Acoustic Wave Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Surface Acoustic Wave Sensors Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Surface Acoustic Wave Sensors Sales Market Share by Region in 2024

Figure 67. Asia Pacific Surface Acoustic Wave Sensors Market Size by Region in 2024

Figure 68. China Surface Acoustic Wave Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Surface Acoustic Wave Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Surface Acoustic Wave Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Surface Acoustic Wave Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Surface Acoustic Wave Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Surface Acoustic Wave Sensors Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 74. India Surface Acoustic Wave Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Surface Acoustic Wave Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Surface Acoustic Wave Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Surface Acoustic Wave Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Surface Acoustic Wave Sensors Sales and Growth Rate (K Units)

Figure 79. South America Surface Acoustic Wave Sensors Sales Market Share by Country in 2024

Figure 80. South America Surface Acoustic Wave Sensors Market Size and Growth Rate (M USD)

Figure 81. South America Surface Acoustic Wave Sensors Market Size by Country in 2024

Figure 82. Brazil Surface Acoustic Wave Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Surface Acoustic Wave Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Surface Acoustic Wave Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Surface Acoustic Wave Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Surface Acoustic Wave Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Surface Acoustic Wave Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Surface Acoustic Wave Sensors Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Surface Acoustic Wave Sensors Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Surface Acoustic Wave Sensors Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Surface Acoustic Wave Sensors Market Size by Region in 2024

Figure 92. Saudi Arabia Surface Acoustic Wave Sensors Sales and Growth Rate (2020-2025) & (K Units)

- Figure 93. Saudi Arabia Surface Acoustic Wave Sensors Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 94. UAE Surface Acoustic Wave Sensors Sales and Growth Rate (2020-2025) & (K Units)
- Figure 95. UAE Surface Acoustic Wave Sensors Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 96. Egypt Surface Acoustic Wave Sensors Sales and Growth Rate (2020-2025) & (K Units)
- Figure 97. Egypt Surface Acoustic Wave Sensors Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 98. Nigeria Surface Acoustic Wave Sensors Sales and Growth Rate (2020-2025) & (K Units)
- Figure 99. Nigeria Surface Acoustic Wave Sensors Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 100. South Africa Surface Acoustic Wave Sensors Sales and Growth Rate (2020-2025) & (K Units)
- Figure 101. South Africa Surface Acoustic Wave Sensors Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 102. Global Surface Acoustic Wave Sensors Production Market Share by Region (2020-2025)
- Figure 103. North America Surface Acoustic Wave Sensors Production (K Units) Growth Rate (2020-2025)
- Figure 104. Europe Surface Acoustic Wave Sensors Production (K Units) Growth Rate (2020-2025)
- Figure 105. Japan Surface Acoustic Wave Sensors Production (K Units) Growth Rate (2020-2025)
- Figure 106. China Surface Acoustic Wave Sensors Production (K Units) Growth Rate (2020-2025)
- Figure 107. Global Surface Acoustic Wave Sensors Sales Forecast by Volume (2020-2035) & (K Units)
- Figure 108. Global Surface Acoustic Wave Sensors Market Size Forecast by Value (2020-2035) & (M USD)
- Figure 109. Global Surface Acoustic Wave Sensors Sales Market Share Forecast by Type (2026-2035)
- Figure 110. Global Surface Acoustic Wave Sensors Market Share Forecast by Type (2026-2035)
- Figure 111. Global Surface Acoustic Wave Sensors Sales Forecast by Application (2026-2035)
- Figure 112. Global Surface Acoustic Wave Sensors Market Share Forecast by

Application (2026-2035)

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