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Global Acoustic Wave Technology Biosensors Market Growth 2025-2031

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Abstracts

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The global Acoustic Wave Technology Biosensors market size is predicted to grow from US$ million in 2025 to US$ million in 2031; it is expected to grow at a CAGR of %from 2025 to 2031.

Acoustic wave sensors operate by monitoring the change in the physical properties of an acoustic wave in response to the measurand. Piezoelectric materials (crystalline solids lacking a centre of inversion symmetry and representing strong coupling between mechanical strain and electrical polarization) are commonly employed in acoustic sensors to generate acoustic waves in solid materials using appropriately tailored electric fields and to detect the acoustic waves by the charge generated due to the induced mechanical deformation. Quartz is commonly used as it is abundant, amenable to low-cost volume manufacturing and is associated with excellent mechanical properties and good chemical stability. Depending on the cut of the quartz crystal, different properties can be realized. There are two traditional ‘cuts’ for the quartz crystal used in acoustic sensors: the AT cut and the ST cut. These differences cause different piezoelectric deformations, which allow acoustic waves to efficiently propagate in different directions: either along the surface of the sensor, or away from the sensor surface towards the bulk substrate. This distinction is quite important and is the basis of the classification of acoustic sensors into either surface acoustic wave (SAW) or bulk acoustic wave (BAW) sensors.

United States market for Acoustic Wave Technology Biosensors is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

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China market for Acoustic Wave Technology Biosensors is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Acoustic Wave Technology Biosensors is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Acoustic Wave Technology Biosensors players cover Biolin Scientific (Addlife), AWSensors, Quartz Pro, INFICON, MicroVacuum, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “Acoustic Wave Technology Biosensors Industry Forecast” looks at past sales and reviews total world Acoustic Wave Technology Biosensors sales in 2024, providing a comprehensive analysis by region and market sector of projected Acoustic Wave Technology Biosensors sales for 2025 through 2031. With Acoustic Wave Technology Biosensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Acoustic Wave Technology Biosensors industry.

This Insight Report provides a comprehensive analysis of the global Acoustic Wave Technology Biosensors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Acoustic Wave Technology Biosensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Acoustic Wave Technology Biosensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Acoustic Wave Technology Biosensors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Acoustic Wave Technology Biosensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Acoustic Wave Technology Biosensors market by product type, application, key manufacturers and key regions and countries.

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Segmentation by Type:

- Quartz Crystal Microbalance (QCM) Sensor
- Surface Acoustic Wave (SAW) Sensor

Segmentation by Application:

- University
- Research institutions
- Company

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia

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India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Biolin Scientific (Addlife)

AWSensors

Quartz Pro

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INFICON

MicroVacuum

3T analytik

Gamry Instruments

Shenzhen Renlu Technology

MS Tech

SAW Components Dresden

NDK

SenSanna

Key Questions Addressed in this Report

What is the 10-year outlook for the global Acoustic Wave Technology Biosensors market?

What factors are driving Acoustic Wave Technology Biosensors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Acoustic Wave Technology Biosensors market opportunities vary by end market size?

How does Acoustic Wave Technology Biosensors break out by Type, by Application?

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global Acoustic Wave Technology Biosensors Annual Sales 2020-2031
  2.1.2 World Current & Future Analysis for Acoustic Wave Technology Biosensors by Geographic Region, 2020, 2024 & 2031
  2.1.3 World Current & Future Analysis for Acoustic Wave Technology Biosensors by Country/Region, 2020, 2024 & 2031
2.2 Acoustic Wave Technology Biosensors Segment by Type
  2.2.1 Quartz Crystal Microbalance (QCM) Sensor
  2.2.2 Surface Acoustic Wave (SAW) Sensor
2.3 Acoustic Wave Technology Biosensors Sales by Type
  2.3.1 Global Acoustic Wave Technology Biosensors Sales Market Share by Type (2020-2025)
  2.3.2 Global Acoustic Wave Technology Biosensors Revenue and Market Share by Type (2020-2025)
  2.3.3 Global Acoustic Wave Technology Biosensors Sale Price by Type (2020-2025)
2.4 Acoustic Wave Technology Biosensors Segment by Application
  2.4.1 University
  2.4.2 Research institutions
  2.4.3 Company
2.5 Acoustic Wave Technology Biosensors Sales by Application
  2.5.1 Global Acoustic Wave Technology Biosensors Sale Market Share by Application (2020-2025)
  2.5.2 Global Acoustic Wave Technology Biosensors Revenue and Market Share by Application (2020-2025)

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2.5.3 Global Acoustic Wave Technology Biosensors Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Acoustic Wave Technology Biosensors Breakdown Data by Company
3.1.1 Global Acoustic Wave Technology Biosensors Annual Sales by Company (2020-2025)
3.1.2 Global Acoustic Wave Technology Biosensors Sales Market Share by Company (2020-2025)
3.2 Global Acoustic Wave Technology Biosensors Annual Revenue by Company (2020-2025)
3.2.1 Global Acoustic Wave Technology Biosensors Revenue by Company (2020-2025)
3.2.2 Global Acoustic Wave Technology Biosensors Revenue Market Share by Company (2020-2025)
3.3 Global Acoustic Wave Technology Biosensors Sale Price by Company
3.4 Key Manufacturers Acoustic Wave Technology Biosensors Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Acoustic Wave Technology Biosensors Product Location Distribution
3.4.2 Players Acoustic Wave Technology Biosensors Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR ACOUSTIC WAVE TECHNOLOGY BIOSENSORS BY GEOGRAPHIC REGION

4.1 World Historic Acoustic Wave Technology Biosensors Market Size by Geographic Region (2020-2025)
4.1.1 Global Acoustic Wave Technology Biosensors Annual Sales by Geographic Region (2020-2025)
4.1.2 Global Acoustic Wave Technology Biosensors Annual Revenue by Geographic Region (2020-2025)
4.2 World Historic Acoustic Wave Technology Biosensors Market Size by Country/Region (2020-2025)

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4.2.1 Global Acoustic Wave Technology Biosensors Annual Sales by Country/Region (2020-2025)
4.2.2 Global Acoustic Wave Technology Biosensors Annual Revenue by Country/Region (2020-2025)
4.3 Americas Acoustic Wave Technology Biosensors Sales Growth
4.4 APAC Acoustic Wave Technology Biosensors Sales Growth
4.5 Europe Acoustic Wave Technology Biosensors Sales Growth
4.6 Middle East & Africa Acoustic Wave Technology Biosensors Sales Growth

5 AMERICAS

5.1 Americas Acoustic Wave Technology Biosensors Sales by Country
5.1.1 Americas Acoustic Wave Technology Biosensors Sales by Country (2020-2025)
5.1.2 Americas Acoustic Wave Technology Biosensors Revenue by Country (2020-2025)
5.2 Americas Acoustic Wave Technology Biosensors Sales by Type (2020-2025)
5.3 Americas Acoustic Wave Technology Biosensors Sales by Application (2020-2025)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Acoustic Wave Technology Biosensors Sales by Region
6.1.1 APAC Acoustic Wave Technology Biosensors Sales by Region (2020-2025)
6.1.2 APAC Acoustic Wave Technology Biosensors Revenue by Region (2020-2025)
6.2 APAC Acoustic Wave Technology Biosensors Sales by Type (2020-2025)
6.3 APAC Acoustic Wave Technology Biosensors Sales by Application (2020-2025)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

7 EUROPE

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info@marketpublishers.com

7.1 Europe Acoustic Wave Technology Biosensors by Country
7.1.1 Europe Acoustic Wave Technology Biosensors Sales by Country (2020-2025)
7.1.2 Europe Acoustic Wave Technology Biosensors Revenue by Country (2020-2025)
7.2 Europe Acoustic Wave Technology Biosensors Sales by Type (2020-2025)
7.3 Europe Acoustic Wave Technology Biosensors Sales by Application (2020-2025)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Acoustic Wave Technology Biosensors by Country
8.1.1 Middle East & Africa Acoustic Wave Technology Biosensors Sales by Country (2020-2025)
8.1.2 Middle East & Africa Acoustic Wave Technology Biosensors Revenue by Country (2020-2025)
8.2 Middle East & Africa Acoustic Wave Technology Biosensors Sales by Type (2020-2025)
8.3 Middle East & Africa Acoustic Wave Technology Biosensors Sales by Application (2020-2025)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of Acoustic Wave Technology Biosensors
10.3 Manufacturing Process Analysis of Acoustic Wave Technology Biosensors

+357 96 030922
info@marketpublishers.com

10.4 Industry Chain Structure of Acoustic Wave Technology Biosensors

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Acoustic Wave Technology Biosensors Distributors
11.3 Acoustic Wave Technology Biosensors Customer

12 WORLD FORECAST REVIEW FOR ACOUSTIC WAVE TECHNOLOGY BIOSENSORS BY GEOGRAPHIC REGION

12.1 Global Acoustic Wave Technology Biosensors Market Size Forecast by Region
  12.1.1 Global Acoustic Wave Technology Biosensors Forecast by Region (2026-2031)
  12.1.2 Global Acoustic Wave Technology Biosensors Annual Revenue Forecast by Region (2026-2031)
12.2 Americas Forecast by Country (2026-2031)
12.3 APAC Forecast by Region (2026-2031)
12.4 Europe Forecast by Country (2026-2031)
12.5 Middle East & Africa Forecast by Country (2026-2031)
12.6 Global Acoustic Wave Technology Biosensors Forecast by Type (2026-2031)
12.7 Global Acoustic Wave Technology Biosensors Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 Biolin Scientific (Addlife)
  13.1.1 Biolin Scientific (Addlife) Company Information
  13.1.2 Biolin Scientific (Addlife) Acoustic Wave Technology Biosensors Product Portfolios and Specifications
  13.1.3 Biolin Scientific (Addlife) Acoustic Wave Technology Biosensors Sales, Revenue, Price and Gross Margin (2020-2025)
  13.1.4 Biolin Scientific (Addlife) Main Business Overview
  13.1.5 Biolin Scientific (Addlife) Latest Developments
13.2 AWSensors
  13.2.1 AWSensors Company Information
  13.2.2 AWSensors Acoustic Wave Technology Biosensors Product Portfolios and Specifications

+357 96 030922
info@marketpublishers.com

13.2.3 AWSensors Acoustic Wave Technology Biosensors Sales, Revenue, Price and Gross Margin (2020-2025)
13.2.4 AWSensors Main Business Overview
13.2.5 AWSensors Latest Developments
13.3 Quartz Pro
13.3.1 Quartz Pro Company Information
13.3.2 Quartz Pro Acoustic Wave Technology Biosensors Product Portfolios and Specifications
13.3.3 Quartz Pro Acoustic Wave Technology Biosensors Sales, Revenue, Price and Gross Margin (2020-2025)
13.3.4 Quartz Pro Main Business Overview
13.3.5 Quartz Pro Latest Developments
13.4 INFICON
13.4.1 INFICON Company Information
13.4.2 INFICON Acoustic Wave Technology Biosensors Product Portfolios and Specifications
13.4.3 INFICON Acoustic Wave Technology Biosensors Sales, Revenue, Price and Gross Margin (2020-2025)
13.4.4 INFICON Main Business Overview
13.4.5 INFICON Latest Developments
13.5 MicroVacuum
13.5.1 MicroVacuum Company Information
13.5.2 MicroVacuum Acoustic Wave Technology Biosensors Product Portfolios and Specifications
13.5.3 MicroVacuum Acoustic Wave Technology Biosensors Sales, Revenue, Price and Gross Margin (2020-2025)
13.5.4 MicroVacuum Main Business Overview
13.5.5 MicroVacuum Latest Developments
13.6 3T analytik
13.6.1 3T analytik Company Information
13.6.2 3T analytik Acoustic Wave Technology Biosensors Product Portfolios and Specifications
13.6.3 3T analytik Acoustic Wave Technology Biosensors Sales, Revenue, Price and Gross Margin (2020-2025)
13.6.4 3T analytik Main Business Overview
13.6.5 3T analytik Latest Developments
13.7 Gamry Instruments
13.7.1 Gamry Instruments Company Information
13.7.2 Gamry Instruments Acoustic Wave Technology Biosensors Product Portfolios

+357 96 030922
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and Specifications
13.7.3 Gamry Instruments Acoustic Wave Technology Biosensors Sales, Revenue, Price and Gross Margin (2020-2025)
13.7.4 Gamry Instruments Main Business Overview
13.7.5 Gamry Instruments Latest Developments
13.8 Shenzhen Renlu Technology
13.8.1 Shenzhen Renlu Technology Company Information
13.8.2 Shenzhen Renlu Technology Acoustic Wave Technology Biosensors Product Portfolios and Specifications
13.8.3 Shenzhen Renlu Technology Acoustic Wave Technology Biosensors Sales, Revenue, Price and Gross Margin (2020-2025)
13.8.4 Shenzhen Renlu Technology Main Business Overview
13.8.5 Shenzhen Renlu Technology Latest Developments
13.9 MS Tech
13.9.1 MS Tech Company Information
13.9.2 MS Tech Acoustic Wave Technology Biosensors Product Portfolios and Specifications
13.9.3 MS Tech Acoustic Wave Technology Biosensors Sales, Revenue, Price and Gross Margin (2020-2025)
13.9.4 MS Tech Main Business Overview
13.9.5 MS Tech Latest Developments
13.10 SAW Components Dresden
13.10.1 SAW Components Dresden Company Information
13.10.2 SAW Components Dresden Acoustic Wave Technology Biosensors Product Portfolios and Specifications
13.10.3 SAW Components Dresden Acoustic Wave Technology Biosensors Sales, Revenue, Price and Gross Margin (2020-2025)
13.10.4 SAW Components Dresden Main Business Overview
13.10.5 SAW Components Dresden Latest Developments
13.11 NDK
13.11.1 NDK Company Information
13.11.2 NDK Acoustic Wave Technology Biosensors Product Portfolios and Specifications
13.11.3 NDK Acoustic Wave Technology Biosensors Sales, Revenue, Price and Gross Margin (2020-2025)
13.11.4 NDK Main Business Overview
13.11.5 NDK Latest Developments
13.12 SenSanna
13.12.1 SenSanna Company Information

+357 96 030922
info@marketpublishers.com

13.12.2 SenSanna Acoustic Wave Technology Biosensors Product Portfolios and Specifications
13.12.3 SenSanna Acoustic Wave Technology Biosensors Sales, Revenue, Price and Gross Margin (2020-2025)
13.12.4 SenSanna Main Business Overview
13.12.5 SenSanna Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Acoustic Wave Technology Biosensors Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & ($ millions)
Table 2. Acoustic Wave Technology Biosensors Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & ($ millions)
Table 3. Major Players of Quartz Crystal Microbalance (QCM) Sensor
Table 4. Major Players of Surface Acoustic Wave (SAW) Sensor
Table 5. Global Acoustic Wave Technology Biosensors Sales by Type (2020-2025) & (K Units)
Table 6. Global Acoustic Wave Technology Biosensors Sales Market Share by Type (2020-2025)
Table 7. Global Acoustic Wave Technology Biosensors Revenue by Type (2020-2025) & ($ million)
Table 8. Global Acoustic Wave Technology Biosensors Revenue Market Share by Type (2020-2025)
Table 9. Global Acoustic Wave Technology Biosensors Sale Price by Type (2020-2025) & (US$/Unit)
Table 10. Global Acoustic Wave Technology Biosensors Sale by Application (2020-2025) & (K Units)
Table 11. Global Acoustic Wave Technology Biosensors Sale Market Share by Application (2020-2025)
Table 12. Global Acoustic Wave Technology Biosensors Revenue by Application (2020-2025) & ($ million)
Table 13. Global Acoustic Wave Technology Biosensors Revenue Market Share by Application (2020-2025)
Table 14. Global Acoustic Wave Technology Biosensors Sale Price by Application (2020-2025) & (US$/Unit)
Table 15. Global Acoustic Wave Technology Biosensors Sales by Company (2020-2025) & (K Units)
Table 16. Global Acoustic Wave Technology Biosensors Sales Market Share by Company (2020-2025)
Table 17. Global Acoustic Wave Technology Biosensors Revenue by Company (2020-2025) & ($ millions)
Table 18. Global Acoustic Wave Technology Biosensors Revenue Market Share by Company (2020-2025)
Table 19. Global Acoustic Wave Technology Biosensors Sale Price by Company

+357 96 030922
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(2020-2025) & (US$/Unit)
Table 20. Key Manufacturers Acoustic Wave Technology Biosensors Producing Area Distribution and Sales Area
Table 21. Players Acoustic Wave Technology Biosensors Products Offered
Table 22. Acoustic Wave Technology Biosensors Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
Table 23. New Products and Potential Entrants
Table 24. Market M&A Activity & Strategy
Table 25. Global Acoustic Wave Technology Biosensors Sales by Geographic Region (2020-2025) & (K Units)
Table 26. Global Acoustic Wave Technology Biosensors Sales Market Share Geographic Region (2020-2025)
Table 27. Global Acoustic Wave Technology Biosensors Revenue by Geographic Region (2020-2025) & ($ millions)
Table 28. Global Acoustic Wave Technology Biosensors Revenue Market Share by Geographic Region (2020-2025)
Table 29. Global Acoustic Wave Technology Biosensors Sales by Country/Region (2020-2025) & (K Units)
Table 30. Global Acoustic Wave Technology Biosensors Sales Market Share by Country/Region (2020-2025)
Table 31. Global Acoustic Wave Technology Biosensors Revenue by Country/Region (2020-2025) & ($ millions)
Table 32. Global Acoustic Wave Technology Biosensors Revenue Market Share by Country/Region (2020-2025)
Table 33. Americas Acoustic Wave Technology Biosensors Sales by Country (2020-2025) & (K Units)
Table 34. Americas Acoustic Wave Technology Biosensors Sales Market Share by Country (2020-2025)
Table 35. Americas Acoustic Wave Technology Biosensors Revenue by Country (2020-2025) & ($ millions)
Table 36. Americas Acoustic Wave Technology Biosensors Sales by Type (2020-2025) & (K Units)
Table 37. Americas Acoustic Wave Technology Biosensors Sales by Application (2020-2025) & (K Units)
Table 38. APAC Acoustic Wave Technology Biosensors Sales by Region (2020-2025) & (K Units)
Table 39. APAC Acoustic Wave Technology Biosensors Sales Market Share by Region (2020-2025)
Table 40. APAC Acoustic Wave Technology Biosensors Revenue by Region

+357 96 030922
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(2020-2025) & ($ millions)
Table 41. APAC Acoustic Wave Technology Biosensors Sales by Type (2020-2025) & (K Units)
Table 42. APAC Acoustic Wave Technology Biosensors Sales by Application (2020-2025) & (K Units)
Table 43. Europe Acoustic Wave Technology Biosensors Sales by Country (2020-2025) & (K Units)
Table 44. Europe Acoustic Wave Technology Biosensors Revenue by Country (2020-2025) & ($ millions)
Table 45. Europe Acoustic Wave Technology Biosensors Sales by Type (2020-2025) & (K Units)
Table 46. Europe Acoustic Wave Technology Biosensors Sales by Application (2020-2025) & (K Units)
Table 47. Middle East & Africa Acoustic Wave Technology Biosensors Sales by Country (2020-2025) & (K Units)
Table 48. Middle East & Africa Acoustic Wave Technology Biosensors Revenue Market Share by Country (2020-2025)
Table 49. Middle East & Africa Acoustic Wave Technology Biosensors Sales by Type (2020-2025) & (K Units)
Table 50. Middle East & Africa Acoustic Wave Technology Biosensors Sales by Application (2020-2025) & (K Units)
Table 51. Key Market Drivers & Growth Opportunities of Acoustic Wave Technology Biosensors
Table 52. Key Market Challenges & Risks of Acoustic Wave Technology Biosensors
Table 53. Key Industry Trends of Acoustic Wave Technology Biosensors
Table 54. Acoustic Wave Technology Biosensors Raw Material
Table 55. Key Suppliers of Raw Materials
Table 56. Acoustic Wave Technology Biosensors Distributors List
Table 57. Acoustic Wave Technology Biosensors Customer List
Table 58. Global Acoustic Wave Technology Biosensors Sales Forecast by Region (2026-2031) & (K Units)
Table 59. Global Acoustic Wave Technology Biosensors Revenue Forecast by Region (2026-2031) & ($ millions)
Table 60. Americas Acoustic Wave Technology Biosensors Sales Forecast by Country (2026-2031) & (K Units)
Table 61. Americas Acoustic Wave Technology Biosensors Annual Revenue Forecast by Country (2026-2031) & ($ millions)
Table 62. APAC Acoustic Wave Technology Biosensors Sales Forecast by Region (2026-2031) & (K Units)

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Table 63. APAC Acoustic Wave Technology Biosensors Annual Revenue Forecast by Region (2026-2031) & ($ millions)
Table 64. Europe Acoustic Wave Technology Biosensors Sales Forecast by Country (2026-2031) & (K Units)
Table 65. Europe Acoustic Wave Technology Biosensors Revenue Forecast by Country (2026-2031) & ($ millions)
Table 66. Middle East & Africa Acoustic Wave Technology Biosensors Sales Forecast by Country (2026-2031) & (K Units)
Table 67. Middle East & Africa Acoustic Wave Technology Biosensors Revenue Forecast by Country (2026-2031) & ($ millions)
Table 68. Global Acoustic Wave Technology Biosensors Sales Forecast by Type (2026-2031) & (K Units)
Table 69. Global Acoustic Wave Technology Biosensors Revenue Forecast by Type (2026-2031) & ($ millions)
Table 70. Global Acoustic Wave Technology Biosensors Sales Forecast by Application (2026-2031) & (K Units)
Table 71. Global Acoustic Wave Technology Biosensors Revenue Forecast by Application (2026-2031) & ($ millions)
Table 72. Biolin Scientific (Addlife) Basic Information, Acoustic Wave Technology Biosensors Manufacturing Base, Sales Area and Its Competitors
Table 73. Biolin Scientific (Addlife) Acoustic Wave Technology Biosensors Product Portfolios and Specifications
Table 74. Biolin Scientific (Addlife) Acoustic Wave Technology Biosensors Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 75. Biolin Scientific (Addlife) Main Business
Table 76. Biolin Scientific (Addlife) Latest Developments
Table 77. AWSensors Basic Information, Acoustic Wave Technology Biosensors Manufacturing Base, Sales Area and Its Competitors
Table 78. AWSensors Acoustic Wave Technology Biosensors Product Portfolios and Specifications
Table 79. AWSensors Acoustic Wave Technology Biosensors Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 80. AWSensors Main Business
Table 81. AWSensors Latest Developments
Table 82. Quartz Pro Basic Information, Acoustic Wave Technology Biosensors Manufacturing Base, Sales Area and Its Competitors
Table 83. Quartz Pro Acoustic Wave Technology Biosensors Product Portfolios and Specifications
Table 84. Quartz Pro Acoustic Wave Technology Biosensors Sales (K Units), Revenue

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($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 85. Quartz Pro Main Business
Table 86. Quartz Pro Latest Developments
Table 87. INFICON Basic Information, Acoustic Wave Technology Biosensors Manufacturing Base, Sales Area and Its Competitors
Table 88. INFICON Acoustic Wave Technology Biosensors Product Portfolios and Specifications
Table 89. INFICON Acoustic Wave Technology Biosensors Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 90. INFICON Main Business
Table 91. INFICON Latest Developments
Table 92. MicroVacuum Basic Information, Acoustic Wave Technology Biosensors Manufacturing Base, Sales Area and Its Competitors
Table 93. MicroVacuum Acoustic Wave Technology Biosensors Product Portfolios and Specifications
Table 94. MicroVacuum Acoustic Wave Technology Biosensors Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 95. MicroVacuum Main Business
Table 96. MicroVacuum Latest Developments
Table 97. 3T analytik Basic Information, Acoustic Wave Technology Biosensors Manufacturing Base, Sales Area and Its Competitors
Table 98. 3T analytik Acoustic Wave Technology Biosensors Product Portfolios and Specifications
Table 99. 3T analytik Acoustic Wave Technology Biosensors Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 100. 3T analytik Main Business
Table 101. 3T analytik Latest Developments
Table 102. Gamry Instruments Basic Information, Acoustic Wave Technology Biosensors Manufacturing Base, Sales Area and Its Competitors
Table 103. Gamry Instruments Acoustic Wave Technology Biosensors Product Portfolios and Specifications
Table 104. Gamry Instruments Acoustic Wave Technology Biosensors Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 105. Gamry Instruments Main Business
Table 106. Gamry Instruments Latest Developments
Table 107. Shenzhen Renlu Technology Basic Information, Acoustic Wave Technology Biosensors Manufacturing Base, Sales Area and Its Competitors
Table 108. Shenzhen Renlu Technology Acoustic Wave Technology Biosensors Product Portfolios and Specifications

+357 96 030922
info@marketpublishers.com

Table 109. Shenzhen Renlu Technology Acoustic Wave Technology Biosensors Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 110. Shenzhen Renlu Technology Main Business
Table 111. Shenzhen Renlu Technology Latest Developments
Table 112. MS Tech Basic Information, Acoustic Wave Technology Biosensors Manufacturing Base, Sales Area and Its Competitors
Table 113. MS Tech Acoustic Wave Technology Biosensors Product Portfolios and Specifications
Table 114. MS Tech Acoustic Wave Technology Biosensors Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 115. MS Tech Main Business
Table 116. MS Tech Latest Developments
Table 117. SAW Components Dresden Basic Information, Acoustic Wave Technology Biosensors Manufacturing Base, Sales Area and Its Competitors
Table 118. SAW Components Dresden Acoustic Wave Technology Biosensors Product Portfolios and Specifications
Table 119. SAW Components Dresden Acoustic Wave Technology Biosensors Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 120. SAW Components Dresden Main Business
Table 121. SAW Components Dresden Latest Developments
Table 122. NDK Basic Information, Acoustic Wave Technology Biosensors Manufacturing Base, Sales Area and Its Competitors
Table 123. NDK Acoustic Wave Technology Biosensors Product Portfolios and Specifications
Table 124. NDK Acoustic Wave Technology Biosensors Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 125. NDK Main Business
Table 126. NDK Latest Developments
Table 127. SenSanna Basic Information, Acoustic Wave Technology Biosensors Manufacturing Base, Sales Area and Its Competitors
Table 128. SenSanna Acoustic Wave Technology Biosensors Product Portfolios and Specifications
Table 129. SenSanna Acoustic Wave Technology Biosensors Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 130. SenSanna Main Business
Table 131. SenSanna Latest Developments

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Acoustic Wave Technology Biosensors
Figure 2. Acoustic Wave Technology Biosensors Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Acoustic Wave Technology Biosensors Sales Growth Rate 2020-2031 (K Units)
Figure 7. Global Acoustic Wave Technology Biosensors Revenue Growth Rate 2020-2031 ($ millions)
Figure 8. Acoustic Wave Technology Biosensors Sales by Geographic Region (2020, 2024 & 2031) & ($ millions)
Figure 9. Acoustic Wave Technology Biosensors Sales Market Share by Country/Region (2024)
Figure 10. Acoustic Wave Technology Biosensors Sales Market Share by Country/Region (2020, 2024 & 2031)
Figure 11. Product Picture of Quartz Crystal Microbalance (QCM) Sensor
Figure 12. Product Picture of Surface Acoustic Wave (SAW) Sensor
Figure 13. Global Acoustic Wave Technology Biosensors Sales Market Share by Type in 2025
Figure 14. Global Acoustic Wave Technology Biosensors Revenue Market Share by Type (2020-2025)
Figure 15. Acoustic Wave Technology Biosensors Consumed in University
Figure 16. Global Acoustic Wave Technology Biosensors Market: University (2020-2025) & (K Units)
Figure 17. Acoustic Wave Technology Biosensors Consumed in Research institutions
Figure 18. Global Acoustic Wave Technology Biosensors Market: Research institutions (2020-2025) & (K Units)
Figure 19. Acoustic Wave Technology Biosensors Consumed in Company
Figure 20. Global Acoustic Wave Technology Biosensors Market: Company (2020-2025) & (K Units)
Figure 21. Global Acoustic Wave Technology Biosensors Sale Market Share by Application (2024)
Figure 22. Global Acoustic Wave Technology Biosensors Revenue Market Share by Application in 2025
Figure 23. Acoustic Wave Technology Biosensors Sales by Company in 2025 (K Units)

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Figure 24. Global Acoustic Wave Technology Biosensors Sales Market Share by Company in 2025
Figure 25. Acoustic Wave Technology Biosensors Revenue by Company in 2025 ($ millions)
Figure 26. Global Acoustic Wave Technology Biosensors Revenue Market Share by Company in 2025
Figure 27. Global Acoustic Wave Technology Biosensors Sales Market Share by Geographic Region (2020-2025)
Figure 28. Global Acoustic Wave Technology Biosensors Revenue Market Share by Geographic Region in 2025
Figure 29. Americas Acoustic Wave Technology Biosensors Sales 2020-2025 (K Units)
Figure 30. Americas Acoustic Wave Technology Biosensors Revenue 2020-2025 ($ millions)
Figure 31. APAC Acoustic Wave Technology Biosensors Sales 2020-2025 (K Units)
Figure 32. APAC Acoustic Wave Technology Biosensors Revenue 2020-2025 ($ millions)
Figure 33. Europe Acoustic Wave Technology Biosensors Sales 2020-2025 (K Units)
Figure 34. Europe Acoustic Wave Technology Biosensors Revenue 2020-2025 ($ millions)
Figure 35. Middle East & Africa Acoustic Wave Technology Biosensors Sales 2020-2025 (K Units)
Figure 36. Middle East & Africa Acoustic Wave Technology Biosensors Revenue 2020-2025 ($ millions)
Figure 37. Americas Acoustic Wave Technology Biosensors Sales Market Share by Country in 2025
Figure 38. Americas Acoustic Wave Technology Biosensors Revenue Market Share by Country (2020-2025)
Figure 39. Americas Acoustic Wave Technology Biosensors Sales Market Share by Type (2020-2025)
Figure 40. Americas Acoustic Wave Technology Biosensors Sales Market Share by Application (2020-2025)
Figure 41. United States Acoustic Wave Technology Biosensors Revenue Growth 2020-2025 ($ millions)
Figure 42. Canada Acoustic Wave Technology Biosensors Revenue Growth 2020-2025 ($ millions)
Figure 43. Mexico Acoustic Wave Technology Biosensors Revenue Growth 2020-2025 ($ millions)
Figure 44. Brazil Acoustic Wave Technology Biosensors Revenue Growth 2020-2025 ($ millions)

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Figure 45. APAC Acoustic Wave Technology Biosensors Sales Market Share by Region in 2025
Figure 46. APAC Acoustic Wave Technology Biosensors Revenue Market Share by Region (2020-2025)
Figure 47. APAC Acoustic Wave Technology Biosensors Sales Market Share by Type (2020-2025)
Figure 48. APAC Acoustic Wave Technology Biosensors Sales Market Share by Application (2020-2025)
Figure 49. China Acoustic Wave Technology Biosensors Revenue Growth 2020-2025 ($ millions)
Figure 50. Japan Acoustic Wave Technology Biosensors Revenue Growth 2020-2025 ($ millions)
Figure 51. South Korea Acoustic Wave Technology Biosensors Revenue Growth 2020-2025 ($ millions)
Figure 52. Southeast Asia Acoustic Wave Technology Biosensors Revenue Growth 2020-2025 ($ millions)
Figure 53. India Acoustic Wave Technology Biosensors Revenue Growth 2020-2025 ($ millions)
Figure 54. Australia Acoustic Wave Technology Biosensors Revenue Growth 2020-2025 ($ millions)
Figure 55. China Taiwan Acoustic Wave Technology Biosensors Revenue Growth 2020-2025 ($ millions)
Figure 56. Europe Acoustic Wave Technology Biosensors Sales Market Share by Country in 2025
Figure 57. Europe Acoustic Wave Technology Biosensors Revenue Market Share by Country (2020-2025)
Figure 58. Europe Acoustic Wave Technology Biosensors Sales Market Share by Type (2020-2025)
Figure 59. Europe Acoustic Wave Technology Biosensors Sales Market Share by Application (2020-2025)
Figure 60. Germany Acoustic Wave Technology Biosensors Revenue Growth 2020-2025 ($ millions)
Figure 61. France Acoustic Wave Technology Biosensors Revenue Growth 2020-2025 ($ millions)
Figure 62. UK Acoustic Wave Technology Biosensors Revenue Growth 2020-2025 ($ millions)
Figure 63. Italy Acoustic Wave Technology Biosensors Revenue Growth 2020-2025 ($ millions)
Figure 64. Russia Acoustic Wave Technology Biosensors Revenue Growth 2020-2025

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($ millions)
Figure 65. Middle East & Africa Acoustic Wave Technology Biosensors Sales Market Share by Country (2020-2025)
Figure 66. Middle East & Africa Acoustic Wave Technology Biosensors Sales Market Share by Type (2020-2025)
Figure 67. Middle East & Africa Acoustic Wave Technology Biosensors Sales Market Share by Application (2020-2025)
Figure 68. Egypt Acoustic Wave Technology Biosensors Revenue Growth 2020-2025 ($ millions)
Figure 69. South Africa Acoustic Wave Technology Biosensors Revenue Growth 2020-2025 ($ millions)
Figure 70. Israel Acoustic Wave Technology Biosensors Revenue Growth 2020-2025 ($ millions)
Figure 71. Turkey Acoustic Wave Technology Biosensors Revenue Growth 2020-2025 ($ millions)
Figure 72. GCC Countries Acoustic Wave Technology Biosensors Revenue Growth 2020-2025 ($ millions)
Figure 73. Manufacturing Cost Structure Analysis of Acoustic Wave Technology Biosensors in 2025
Figure 74. Manufacturing Process Analysis of Acoustic Wave Technology Biosensors
Figure 75. Industry Chain Structure of Acoustic Wave Technology Biosensors
Figure 76. Channels of Distribution
Figure 77. Global Acoustic Wave Technology Biosensors Sales Market Forecast by Region (2026-2031)
Figure 78. Global Acoustic Wave Technology Biosensors Revenue Market Share Forecast by Region (2026-2031)
Figure 79. Global Acoustic Wave Technology Biosensors Sales Market Share Forecast by Type (2026-2031)
Figure 80. Global Acoustic Wave Technology Biosensors Revenue Market Share Forecast by Type (2026-2031)
Figure 81. Global Acoustic Wave Technology Biosensors Sales Market Share Forecast by Application (2026-2031)
Figure 82. Global Acoustic Wave Technology Biosensors Revenue Market Share Forecast by Application (2026-2031)

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