

Global AFM Probe Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global AFM Probe market size was valued at USD 230.8 million in 2023 and is forecast to a readjusted size of USD 374.9 million by 2030 with a CAGR of 7.2% during review period.

Atomic-force microscopy (AFM) or scanning-force microscopy (SFM) is a type of scanning probe microscopy (SPM), with demonstrated resolution on the order of fractions of a nanometer, more than 1000 times better than the optical diffraction limit. The information is gathered by 'feeling' or 'touching' the surface with a mechanical probe. An AFM probe has a sharp tip on the free-swinging end of a cantilever that is protruding from a holder. The dimensions of the cantilever are in the scale of micrometers. The radius of the tip is usually on the scale of a few nanometers to a few tens of nanometers.

The major players in global AFM Probe market include NanoWorld AG, Bruker, etc. The top 2 players hold over 70% of global shares. North America and Europe are main markets, they occupy about 80% of the global market. Silicon AFM Probes is the main type, with a share over 50%. Materials is the key application, which hold a share over 50%.

The Global Info Research report includes an overview of the development of the AFM Probe industry chain, the market status of Life Sciences and Biology (Silicon AFM Probes, Silicon Nitride AFM Probes), Materials (Silicon AFM Probes, Silicon Nitride AFM Probes), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of AFM Probe.

Regionally, the report analyzes the AFM Probe markets in key regions. North America

and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global AFM Probe market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the AFM Probe market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the AFM Probe industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Silicon AFM Probes, Silicon Nitride AFM Probes).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the AFM Probe market.

Regional Analysis: The report involves examining the AFM Probe market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the AFM Probe market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to AFM Probe:

Company Analysis: Report covers individual AFM Probe manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and

attitudes towards AFM Probe This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Life Sciences and Biology, Materials).

Technology Analysis: Report covers specific technologies relevant to AFM Probe. It assesses the current state, advancements, and potential future developments in AFM Probe areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the AFM Probe market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

AFM Probe market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Silicon AFM Probes

Silicon Nitride AFM Probes

Diamond AFM Probes

Market segment by Application

Life Sciences and Biology

Materials

Semiconductors and Electronics

Others

Major players covered

NanoWorld AG

Bruker

NT-MDT

Asylum Research (Oxford Instruments)

Olympus

Advanced Diamond Technologies

AppNano

Team Nanotec GmbH

NaugaNeedles

SmartTip

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe AFM Probe product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AFM Probe, with price, sales, revenue and global market share of AFM Probe from 2019 to 2024.

Chapter 3, the AFM Probe competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AFM Probe breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and AFM Probe market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of AFM Probe.

Chapter 14 and 15, to describe AFM Probe sales channel, distributors, customers, research findings and conclusion.

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