

Global In Situ Atomic Force Microscope Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/G6B2B33383B0EN.html>

Date: October 2025

Pages: 132

Price: US\$ 3,480.00 (Single User License)

ID: G6B2B33383B0EN

Abstracts

According to our (Global Info Research) latest study, the global In Situ Atomic Force Microscope market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

An in situ atomic force microscope is a scientific instrument capable of imaging at atomic resolution while the sample is in its natural environment or reaction conditions. It employs a sharp probe that interacts with the sample surface, measuring the forces between the probe and the sample to obtain surface topography information. This instrument is widely used in fields like materials science, biology, and chemistry, providing researchers with valuable in situ observation and analysis tools.

The in situ atomic force microscope industry is exhibiting a positive development trend. Upstream, the continuous innovation of probe manufacturing technology has led to improved instrument resolution and sensitivity. Downstream application fields, such as nanomaterials, biomedical, and catalysis, are increasingly demanding in situ observation and analysis, promoting the expansion of the instrument market. In terms of product specifications, instrument functions are continuously enriched, enabling more complex environmental control and more precise measurements. The future market size is expected to continue growing, meeting the increasing research and industrial needs.

This report is a detailed and comprehensive analysis for global In Situ Atomic Force

Microscope market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global In Situ Atomic Force Microscope market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global In Situ Atomic Force Microscope market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global In Situ Atomic Force Microscope market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global In Situ Atomic Force Microscope market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for In Situ Atomic Force Microscope
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global In Situ Atomic Force Microscope market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bruker, Oxford Instruments, Horiba, Hitachi, Park Systems, Nanonics Imaging, NT-MDT Spectrum Instruments, Nanosurf, AFM Workshop, Attocube Systems, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

In Situ Atomic Force Microscope market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Carbon Nanotube Needles

Full Metal Wire Needle

Others

Market segment by Application

Laboratory

Company

Major players covered

Bruker

Oxford Instruments

Horiba

Hitachi

Park Systems

Nanonics Imaging

NT-MDT Spectrum Instruments

Nanosurf

AFM Workshop

Attocube Systems

NanoMagnetics Instruments

RHK Technology

A.P.E. Research

GETec Microscopy

CSI Instruments

Toronto Nano Instrumentation

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 In Situ Atomic Force Microscope product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of In Situ Atomic Force Microscope, with price, sales quantity, revenue, and global market share of In Situ Atomic Force Microscope from 2020 to 2025.

Chapter 3, the In Situ Atomic Force Microscope competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the In Situ Atomic Force Microscope breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and In Situ Atomic Force Microscope market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 In Situ Atomic Force Microscope.

Chapter 14 and 15, to describe In Situ Atomic Force Microscope sales channel, distributors, customers, research findings and conclusion.

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