

# Global AFM for Semiconductors Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global AFM for Semiconductors market size will reach 148.71 Million USD in 2025 and is projected to reach 233.69 Million USD by 2032, with a CAGR of 6.67% (2025-2032). Notably, the China AFM for Semiconductors market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

Atomic force microscopy (AFM) for semiconductors is a high-resolution imaging and characterization technique used to analyze the surface topography, mechanical properties, and electrical properties of semiconductor materials at the nanometer scale. AFM involves scanning a sharp probe over the surface of a semiconductor sample and measuring the interaction forces between the probe tip and the surface, creating detailed three-dimensional surface profiles. This technique is crucial in the semiconductor industry for quality control, failure analysis, and research and development, as it can detect surface defects, measure film thickness, evaluate grain size, and identify surface contaminants with high precision. Additionally, AFM can perform electrical measurements, such as mapping conductivity and assessing local electrical properties, providing comprehensive insights into both the physical and electronic characteristics of semiconductor materials, which is essential for ensuring the performance and reliability of semiconductor devices.

The major global manufacturers of AFM for Semiconductors include Oxford

Instruments, Hitachi, Bruker Corporation, Shimadzu, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of AFM for Semiconductors. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global AFM for Semiconductors market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the AFM for Semiconductors market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of AFM for Semiconductors industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of AFM for Semiconductors Include:

Oxford Instruments

Hitachi

Bruker Corporation

Shimadzu

AFM for Semiconductors Product Segment Include:

Manual AFM

Automated AFM

AFM for Semiconductors Product Application Include:

Semiconductor Wafer Metrology

Failure Analysis

Yield Learning

## **Chapter Scope**

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