

Global Atomic-force Microscopy (AFM) Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Atomic-force Microscopy (AFM) market size is expected to reach \$ 688.9 million by 2029, rising at a market growth of 5.3% CAGR during the forecast period (2023-2029).

Global key players of Atomic-force Microscopy (AFM) include Bruker, Park Systems, Oxford Instruments, NT-MDT and HORIBA, etc. The top five players hold a share about 50%. North America is the largest market, has a share about 45%. In terms of products, research grade AFM accounts for nearly 70% of the market share, followed by industrial grade AFM. In terms of its application, material science is the largest application field, with a market share of nearly 50%, followed by semiconductor and electronics and life science.

Atomic-force microscopy (AFM) or scanning-force Microscopy (SFM) is a very-high-resolution 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.

AFM provides a 3D profile of the surface on a nanoscale, by measuring forces between a sharp probe (

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