

Nanodevices and Nanomachines: The Global Market

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Abstracts

REPORT SCOPE:

The report covers all types of nanomechanical and molecular nanomachines in use or known to be under development as of early 2018, including:

Electromechanical devices that interact with the environment on a nanoscale level to accomplish specific tasks or purposes.

Electromechanical devices with outer dimensions measured in nanometers.

Molecular machines that are not mechanical or electromechanical in nature but employ molecular-scale biological components that produce quasi-mechanical actions or outputs in response to specific stimuli.

A pragmatic decision was made to exclude certain types of devices from the report that technically fit the definition of the term 'nanotechnology.' Nanoscale semiconductors are excluded, as they have been analyzed comprehensively elsewhere and would overwhelm other nanomachine technologies by their sheer volume.

The time frame for the analysis is the period from 2017 to 2028 to allow for the fact that many of the devices analyzed by the report are still in the research and development phase but could reach the commercial market by 2028. The market values estimated or imputed for various segments represent the direct cost to the user or investor. These values are expressed in 2017 dollars, and no attempt has been made to adjust them for inflation.

REPORT INCLUDES:

33 tables

Detailed overview of the global market for nanodevices and nanomachines within the nanotechnology industry

Analyses of global market trends with data from 2017, estimates for 2018, and projections of compound annual growth rates (CAGRs) from 2018 through 2023 and 2023 through 2028

Characterization and quantification of global market for nanodevices and nanomachines by type, application, technology, end user, and geographical region

Information on electromechanical devices that interact with the environment on a nanoscale level to accomplish specific tasks or purposes

Critical analysis of the changing regulatory environment with focus on political landscape and legal and regulatory dimensions

A relevant patent analysis, and number of U.S. patents issued for nanomachine-related developments

Company profiles of major players in the market, including ExxonMobil, Hummingbird Scientific LLC, JEOL Ltd., Lockheed Martin, Oxford Instruments and Thermo Fisher Scientific

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BOEING COMPANY

BRUKER AXS

COLOSSAL STORAGE CORP.

DIONEX CORP.

DISCOVERY TECHNOLOGY INTERNATIONAL, INC.

EKSIGENT TECHNOLOGIES LLC

EV GROUP

EXXONMOBIL

HALO LABS INC.

HITACHI HIGH TECHNOLOGIES CORP.

HUMMINGBIRD SCIENTIFIC LLC

IMINA TECHNOLOGIES SA

INNOPSYS

INTERNATIONAL BUSINESS MACHINES

INANO BIO

INTEGRATED DEVICE TECHNOLOGY INC.

JEOL LTD.

KLEINDIEK NANOTECHNIK GMBH

KLOCKE NANOTECHNIK
LOCKHEED MARTIN
MAD CITY LABS INC.
MICROFLUIDICS CORP.
MITRE CORPORATION
MOLECULAR IMPRINTS
NANOLIKE
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NANONEX
NANONICS IMAGING LTD.
NANOSENSORS
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NIL TECHNOLOGY APS
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