

# Global Model Based Development (MBD) Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global Model Based Development (MBD) market size is expected to reach \$ 7269.6 million by 2029, rising at a market growth of 15.7% CAGR during the forecast period (2023-2029).

Global key players of Model Based Development (MBD) include Siemens, IBM, PTC, ETAS, MathWorks, etc. The top five players hold a share over 53%. North America is the largest market, has a share about 36%, followed by Europe and Asia-Pacific, with share 34% and 25%, separately. In terms of product type, On-premises is the largest segment, occupied for a share of 63%, and in terms of application, Automotive has a share about 25%.

Model based development (MBD) is a software development methodology based on V-cycle. The model based approach enables a developer to simulate the models for the complex control processes. These software models can be tested to assess the performance in real-time.

Model-based development is a design and development method that models, simulates, and then verifies controls and controlled objects that make up systems. Through model-based development, verification can be done during the design process, which reduces rework in the verification process, thereby significantly reducing development hours and improving quality. Model-based development methods are used not only in the design process but also in the verification process. By modeling the verification environment, various types of verification can be performed.

Currently, model-based development is being used in a variety of products. It has been implemented mainly in the development of in-vehicle systems but is also being used in

a wide range of other fields such as medical equipment and robotics. It is expected to be introduced in a variety of fields in the future.

This report studies the global Model Based Development (MBD) demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Model Based Development (MBD), and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Model Based Development (MBD) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Model Based Development (MBD) total market, 2018-2029, (USD Million)

Global Model Based Development (MBD) total market by region & country, CAGR, 2018-2029, (USD Million)

U.S. VS China: Model Based Development (MBD) total market, key domestic companies and share, (USD Million)

Global Model Based Development (MBD) revenue by player and market share 2018-2023, (USD Million)

Global Model Based Development (MBD) total market by Type, CAGR, 2018-2029, (USD Million)

Global Model Based Development (MBD) total market by Application, CAGR, 2018-2029, (USD Million).

This reports profiles major players in the global Model Based Development (MBD) market based on the following parameters – company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Siemens, IBM, PTC, ETAS, MathWorks, dSPACE, NXP, Altair and Zuken, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Model Based Development (MBD) market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Model Based Development (MBD) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Model Based Development (MBD) Market, Segmentation by Type

On-premises

Cloud Based

Global Model Based Development (MBD) Market, Segmentation by Application

Automotive

Electronics and Semiconductor

Aerospace and Defence

Medical

Industrial

Others

Companies Profiled:

Siemens

IBM

PTC

ETAS

MathWorks

dSPACE

NXP

Altair

Zuken

Gamma Technologies

Maplesoft

BTC

Model Engineering Solutions

PikeTec

Vector Informatik

Sparx Systems

### Key Questions Answered

1. How big is the global Model Based Development (MBD) market?
2. What is the demand of the global Model Based Development (MBD) market?
3. What is the year over year growth of the global Model Based Development (MBD) market?
4. What is the total value of the global Model Based Development (MBD) market?
5. Who are the major players in the global Model Based Development (MBD) market?

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