

# **Model Based Enterprise Market by Offering (Solutions, Services), Deployment Type (On-premise, Cloud), Industry (Aerospace, Automotive, Construction, Power & Energy, Food & Beverages, Life Sciences & Healthcare, Marine), Region - Global Forecast to 2029**

<https://marketpublishers.com/r/M7262A5AA2CEN.html>

Date: April 2024

Pages: 207

Price: US\$ 4,950.00 (Single User License)

ID: M7262A5AA2CEN

## **Abstracts**

The global model based enterprise market size is expected to grow from USD 13.6 billion in 2024 to USD 27.1 billion by 2029, at a CAGR of 14.9% from 2024 to 2029. The use of 3D models allows manufacturers to shift from design and prototyping to direct manufacturing of functional parts. Traditional manufacturing involves a high tooling cost; however, the use of 3D printing technique for model based enterprise provides several advantages, such as 3D CAD interoperability, minimized manufacturing and supplier response times, short production cycles, and lowered production costs due to the reduction in scrap and rework. This enables the long-term use of MBE, leading toward new capabilities such as reduced cost, reduced time to market, better quality, increased demand on interoperability, democratization of data availability, and competent platforms for collaboration.

“Services segment is projected to grow at an impressive CAGR during the forecast period.”

Consulting and integration services determine the need for diagnostic services, planning, system design, and implementation. These services help end users to achieve critical targets and develop the skillset for improving their internal planning and control processes. Consultants can help to upgrade or use the existing design and modeling systems and infrastructure to enhance plant-centric processes and operations for stronger business performance. Consultants help in analyzing the existing business processes and develop individual requirements to derive a solution concept or design a

process for optimizing and controlling operational workflows. The objective of offering these services is to improve the overall performance of systems for efficient processes, intelligent networks, and cross-area optimization.

' Cloud segment is projected to grow at an impressive CAGR during the forecast period.'

Cloud application frameworks support a wide range of engineering use cases such as supply chain collaboration, quality inspection planning, manufacturing process planning, and product service operations. Cloud-based MBE solutions facilitate data integration for development, offering flexibility, security, and scalability throughout the process. Major vendors providing cloud-based model based enterprise solutions are Siemens (Germany), PTC (US), SAP (Germany) and Dassault Systèmes (France) among many others. For instance, PTC offers Creo, which is a (CAD) software that is used as a cloud-based CAD solution while Windchill which is a PLM software that can be used as a cloud-based PLM solution. Also, SAP offers SAP S/4HANA Cloud Public Edition which is a cloud-based ERP software.

'Automotive industry is expected to hold significant market share during the forecast period.'

The automotive industry requires a strong, scalable, and secure infrastructure to distribute and monetize the content. MBE gives rise to the need for focused management services to simplify the workflow. To support these requirements, 3D modeling software, product life cycle management (PLM), and enterprise resource planning (ERP) solutions are powerful tools. Siemens (Germany) offers Automotive CAD under its PLM software portfolio that is used widely by automotive industry for automotive design and development. Also, Dassault Systèmes offers CATIA, a 3D CAD software, serves as a tool for designing and engineering automotive components and systems.

'The market in Europe is expected to grow at a impressive CAGR during the forecast period.'

The German government has a strong focus on the digitalization of various industries in the country. Industry 4.0 is an ambitious project undertaken by the German government, with an aim to computerize the manufacturing industry for increasing the resource efficiency and industrial output. Cyber-physical systems and the IoT are the technologies involved in this project, with a goal to create a smart factory. These

initiations boost the growth of MBE market in the near future.

Breakdown of the profiles of primary participants:

By Company Type: Tier 1 - 45%, Tier 2 - 35%, and Tier 3 - 20%

By Designation: C-level Executives - 40%, Directors - 35%, and Others - 25%

By Region: North America - 30%, Europe - 25%, Asia Pacific - 35%, and RoW – 10%

Major players profiled in this report are as follows: Siemens (Germany), PTC (US), Dassault Systèmes (France), SAP (Germany), Autodesk Inc. (US), HCL Technologies Limited (India), Oracle (US), Wipro (India), ANSYS, Inc (US), Bentley Systems, Incorporated (US) and Others.

### Research Coverage

The model based enterprise market has been classified by offering, deployment type, industry, and region. The market by offering has been classified into solutions and services. The deployment type segment is divided into cloud and on-premise. The market has been divided into aerospace, automotive, Construction, retail, power & energy, food & beverages, life sciences & healthcare, marine, oil & gas, electronics & telecommunications, and other industries by industry segment. The study also forecasts the market size in four key regions—North America, Europe, Asia Pacific, and RoW.

### Key Benefits of Buying the Report:

The report provides insights on the following pointers:

Analysis of key drivers ( Rising applications of digitization in design and manufacturing, Continuous advancement of software, Increasing adoption of cloud-based platforms), restraints (Difficulties in migration from on-premises to cloud-based platform), opportunities (Rising adoption of MBE to enhance product development in aerospace & defense industry, Rising adoption of digital twin and digital thread technologies), and challenges ( Unawareness about new technologies, Lack of security issues associated with MBE on online platform) influencing the growth of the model based enterprise market.

**Product Development/Innovation:** Detailed insights on new products, technologies, research & development activities, funding activities, industry partnerships, and new product launches in the model based enterprise market.

**Market Development:** Comprehensive information about lucrative markets – the report analyses the model based enterprise market across regions such as North America, Europe, Asia Pacific, and RoW.

**Market Diversification:** Exhaustive information about new products & technologies, untapped geographies, recent developments, and investments in the model based enterprise market

**Competitive Assessment:** In-depth assessment of market position, growth strategies, and product offerings of leading players like Siemens (Germany), PTC (US), Dassault Systèmes (France), SAP (Germany), Autodesk Inc. (US), HCL Technologies Limited (India), Oracle (US) and among others in the model based enterprise market

**Strategies:** The report also helps stakeholders understand the pulse of the model based enterprise market and provides information on key market drivers, restraints, challenges, and opportunities.

## Contents

### 1 INTRODUCTION

#### 1.1 STUDY OBJECTIVES

#### 1.2 MARKET DEFINITION

#### 1.3 STUDY SCOPE

##### 1.3.1 MARKETS COVERED

#### FIGURE 1 MODEL-BASED ENTERPRISE MARKET SEGMENTATION

##### 1.3.2 REGIONAL SCOPE

##### 1.3.3 INCLUSIONS AND EXCLUSIONS

##### 1.3.4 YEARS CONSIDERED

#### 1.4 CURRENCY CONSIDERED

#### 1.5 STAKEHOLDERS

#### 1.6 SUMMARY OF CHANGES

#### 1.7 IMPACT OF RECESSION

### 2 RESEARCH METHODOLOGY

#### 2.1 RESEARCH DATA

#### FIGURE 2 MODEL-BASED ENTERPRISE MARKET: RESEARCH DESIGN

##### 2.1.1 SECONDARY AND PRIMARY RESEARCH

#### FIGURE 3 MODEL-BASED ENTERPRISE MARKET: RESEARCH APPROACH

##### 2.1.2 SECONDARY DATA

###### 2.1.2.1 List of key secondary sources

###### 2.1.2.2 Key data from secondary sources

##### 2.1.3 PRIMARY DATA

###### 2.1.3.1 List of primary interview participants

###### 2.1.3.2 Key data from primary sources

###### 2.1.3.3 Key industry insights

###### 2.1.3.4 Breakdown of primaries

#### 2.2 MARKET SIZE ESTIMATION METHODOLOGY

##### 2.2.1 TOP-DOWN APPROACH

###### 2.2.1.1 Approach to derive market size using top-down analysis (supply side)

#### FIGURE 4 MODEL-BASED ENTERPRISE MARKET: TOP-DOWN APPROACH

##### 2.2.2 BOTTOM-UP APPROACH

###### 2.2.2.1 Approach to derive market size using bottom-up analysis (demand side)

#### FIGURE 5 MODEL-BASED ENTERPRISE MARKET: BOTTOM-UP APPROACH

#### FIGURE 6 MODEL-BASED ENTERPRISE MARKET SIZE ESTIMATION

## METHODOLOGY

### 2.3 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 7 MODEL-BASED ENTERPRISE MARKET: DATA TRIANGULATION

### 2.4 RESEARCH ASSUMPTIONS

FIGURE 8 MODEL-BASED ENTERPRISE MARKET: RESEARCH ASSUMPTIONS

### 2.5 RESEARCH LIMITATIONS

2.6 PARAMETERS CONSIDERED TO ANALYZE IMPACT OF RECESSION ON  
MODEL-BASED ENTERPRISE MARKET

TABLE 1 MODEL-BASED ENTERPRISE MARKET: PARAMETERS CONSIDERED TO  
ANALYZE IMPACT OF RECESSION ON MODEL-BASED ENTERPRISE MARKET

### 2.7 RISK ASSESSMENT

TABLE 2 MODEL-BASED ENTERPRISE MARKET: RISK ASSESSMENT

## 3 EXECUTIVE SUMMARY

FIGURE 9 MODEL-BASED ENTERPRISE MARKET SIZE, 2020–2029 (USD MILLION)

FIGURE 10 SOLUTIONS TO ACCOUNT FOR LARGER SHARE OF MODEL-BASED  
ENTERPRISE MARKET IN 2029

FIGURE 11 ON-PREMISES DEPLOYMENT TYPE HELD LARGER MARKET SHARE  
IN 2024

FIGURE 12 AEROSPACE INDUSTRY TO HOLD LARGEST MARKET SHARE IN 2024

FIGURE 13 ASIA PACIFIC TO REGISTER HIGHEST CAGR DURING FORECAST  
PERIOD

## 4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN MODEL-BASED  
ENTERPRISE MARKET

FIGURE 14 RAPID DIGITIZATION IN DESIGN AND MANUFACTURING TO OFFER  
LUCRATIVE OPPORTUNITIES FOR PLAYERS IN MODEL-BASED ENTERPRISE  
MARKET

4.2 MODEL-BASED ENTERPRISE MARKET, BY OFFERING

FIGURE 15 SOLUTIONS TO DOMINATE MODEL-BASED ENTERPRISE MARKET  
DURING FORECAST PERIOD

4.3 MODEL-BASED ENTERPRISE MARKET, BY INDUSTRY

FIGURE 16 AEROSPACE INDUSTRY TO ACCOUNT FOR LARGEST MARKET  
SHARE IN 2029

4.4 MODEL-BASED ENTERPRISE MARKET IN NORTH AMERICA, BY INDUSTRY  
AND COUNTRY

FIGURE 17 AEROSPACE INDUSTRY AND US HELD LARGEST SHARES OF MODEL-BASED ENTERPRISE MARKET IN NORTH AMERICA IN 2023

4.5 MODEL-BASED ENTERPRISE MARKET, BY COUNTRY

FIGURE 18 INDIA TO REGISTER HIGHEST CAGR BETWEEN 2024 AND 2029

## **5 MARKET OVERVIEW**

### **5.1 INTRODUCTION**

### **5.2 MARKET DYNAMICS**

FIGURE 19 MODEL-BASED ENTERPRISE MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

#### **5.2.1 DRIVERS**

5.2.1.1 Digitization of manufacturing sector

5.2.1.2 Improvements in model-based enterprise capabilities

5.2.1.3 Growing adoption of cloud-based platforms in various industries

FIGURE 20 IMPACT ANALYSIS: DRIVERS

#### **5.2.2 RESTRAINTS**

5.2.2.1 Difficulties in shifting from on-premises to cloud-based platforms

FIGURE 21 IMPACT ANALYSIS: RESTRAINTS

#### **5.2.3 OPPORTUNITIES**

5.2.3.1 Rising adoption of model-based enterprises in aerospace industry to enhance product development

5.2.3.2 Increasing demand for digital twin and digital thread technologies in various industries

FIGURE 22 IMPACT ANALYSIS: OPPORTUNITIES

#### **5.2.4 CHALLENGES**

5.2.4.1 Limited awareness regarding model-based enterprise capabilities

5.2.4.2 Security issues associated with model-based enterprise online platforms

FIGURE 23 IMPACT ANALYSIS: CHALLENGES

### **5.3 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES**

FIGURE 24 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

### **5.4 PRICING ANALYSIS**

5.4.1 INDICATIVE SELLING PRICE OF MODEL-BASED ENTERPRISE SOFTWARE

FIGURE 25 INDICATIVE SELLING PRICE OF MODEL-BASED ENTERPRISE SOFTWARE, 2020–2023 (USD)

5.4.2 INDICATIVE SELLING PRICE OF MODEL-BASED ENTERPRISE SOFTWARE OFFERED BY THREE KEY PLAYERS

FIGURE 26 INDICATIVE SELLING PRICE OF MODEL-BASED ENTERPRISE SOFTWARE OFFERED BY THREE KEY PLAYERS (USD)



TABLE 3 INDICATIVE SELLING PRICE OF MODEL-BASED ENTERPRISE SOFTWARE OFFERED BY THREE KEY PLAYERS (USD)

5.4.3 INDICATIVE SELLING PRICE OF MODEL-BASED ENTERPRISE SOFTWARE OFFERED BY SEVEN KEY PLAYERS

TABLE 4 INDICATIVE SELLING PRICE OF MODEL-BASED ENTERPRISE SOFTWARE OFFERED BY SEVEN KEY PLAYERS (USD)

5.4.4 INDICATIVE SELLING PRICE OF MODEL-BASED ENTERPRISE SOFTWARE, BY REGION

TABLE 5 INDICATIVE SELLING PRICE OF MODEL-BASED ENTERPRISE SOFTWARE, BY REGION (USD)

5.5 VALUE CHAIN ANALYSIS

FIGURE 27 MODEL-BASED ENTERPRISE MARKET: VALUE CHAIN ANALYSIS

5.6 ECOSYSTEM ANALYSIS

FIGURE 28 MODEL-BASED ENTERPRISE MARKET: ECOSYSTEM MAPPING

TABLE 6 ROLE OF COMPANIES IN MODEL-BASED ENTERPRISE ECOSYSTEM

5.7 INVESTMENT AND FUNDING SCENARIO

FIGURE 29 MODEL-BASED ENTERPRISE MARKET: INVESTMENT AND FUNDING SCENARIO, 2017–2022 (USD MILLION)

5.8 TECHNOLOGY ANALYSIS

5.8.1 KEY TECHNOLOGY

5.8.1.1 Model-based design and engineering (MBDE)

5.8.1.2 Digital twin

5.8.2 COMPLEMENTARY TECHNOLOGY

5.8.2.1 Cloud-based solution

5.8.3 ADJACENT TECHNOLOGY

5.8.3.1 5G

5.8.3.2 Artificial intelligence (AI) and machine learning (ML)

5.9 PATENT ANALYSIS

FIGURE 30 TOP 10 PATENT APPLICANTS IN LAST 10 YEARS, 2014–2023

TABLE 7 TOP 20 PATENT OWNERS IN US IN LAST 10 YEARS, 2014–2023

FIGURE 31 NUMBER OF PATENTS GRANTED PER YEAR, 2016–2023

TABLE 8 INNOVATIONS AND PATENT REGISTRATIONS PERTAINING TO MODEL-BASED ENTERPRISE SOFTWARE, 2021–2023

5.10 TRADE ANALYSIS

5.10.1 IMPORT SCENARIO

FIGURE 32 IMPORT DATA FOR HS CODE 8471-COMPLIANT PRODUCTS, BY COUNTRY, 2019–2023 (USD MILLION)

5.10.2 EXPORT SCENARIO

FIGURE 33 EXPORT DATA FOR HS CODE 8471-COMPLIANT PRODUCTS, BY



COUNTRY, 2019–2023 (USD MILLION)

5.11 KEY CONFERENCES AND EVENTS, 2024–2025

TABLE 9 MODEL-BASED ENTERPRISE MARKET: KEY CONFERENCES AND EVENTS, 2024–2025

5.12 CASE STUDY ANALYSIS

5.12.1 ZEISS AND PTC COLLABORATED ON KNOWLEDGE-TRANSFER PROJECT TO BRIDGE GAP BETWEEN DESIGN AND QUALITY CONTROL

5.12.2 AIRBUS ADOPTED SIEMENS'S DIGITAL PRODUCT DESIGN AND MANUFACTURING SOLUTION TO IMPLEMENT MBSE APPROACH TO MANAGE COMPLEX DEVELOPMENT OF A350 XWB AIRCRAFT

5.12.3 NEPTUNE IMPLEMENTED PTC LEARN PLATFORM TO TRAIN ENGINEERS ON CAD SOFTWARE

5.13 REGULATORY LANDSCAPE AND STANDARDS

5.13.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 10 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 11 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 12 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 13 ROW: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.13.2 STANDARDS

TABLE 14 MODEL-BASED ENTERPRISE MARKET: STANDARDS

5.14 PORTER'S FIVE FORCES ANALYSIS

TABLE 15 MODEL-BASED ENTERPRISE MARKET: PORTER'S FIVE FORCES ANALYSIS

FIGURE 34 MODEL-BASED ENTERPRISE MARKET: PORTER'S FIVE FORCES ANALYSIS

5.14.1 BARGAINING POWER OF SUPPLIERS

5.14.2 BARGAINING POWER OF BUYERS

5.14.3 THREAT OF NEW ENTRANTS

5.14.4 THREAT OF SUBSTITUTES

5.14.5 INTENSITY OF COMPETITIVE RIVALRY

5.15 KEY STAKEHOLDERS AND BUYING CRITERIA

5.15.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 35 MODEL-BASED ENTERPRISE MARKET: INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE INDUSTRIES

## TABLE 16 MODEL-BASED ENTERPRISE MARKET: INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE INDUSTRIES

### 5.15.2 BUYING CRITERIA

## FIGURE 36 MODEL-BASED ENTERPRISE MARKET: KEY BUYING CRITERIA FOR TOP THREE INDUSTRIES

## TABLE 17 MODEL-BASED ENTERPRISE MARKET: KEY BUYING CRITERIA FOR TOP THREE INDUSTRIES

## 6 MODEL-BASED ENTERPRISE MARKET, BY OFFERING

### 6.1 INTRODUCTION

#### FIGURE 37 MODEL-BASED ENTERPRISE MARKET, BY OFFERING

#### FIGURE 38 SERVICES TO EXHIBIT HIGHER CAGR IN MODEL-BASED ENTERPRISE MARKET FROM 2024 TO 2029

#### TABLE 18 MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2020–2023 (USD MILLION)

#### TABLE 19 MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2024–2029 (USD MILLION)

### 6.2 SOLUTIONS

#### 6.2.1 DEVELOPMENT OF COMPUTER-AIDED DESIGN SOLUTIONS TO FACILITATE COLLABORATIONS ON PRODUCT DEVELOPMENT TO DRIVE MARKET

#### TABLE 20 SOLUTIONS: MODEL-BASED ENTERPRISE MARKET, BY INDUSTRY, 2020–2023 (USD MILLION)

#### TABLE 21 SOLUTIONS: MODEL-BASED ENTERPRISE MARKET, BY INDUSTRY, 2024–2029 (USD MILLION)

#### TABLE 22 SOLUTIONS: MODEL-BASED ENTERPRISE MARKET, BY REGION, 2020–2023 (USD MILLION)

#### TABLE 23 SOLUTIONS: MODEL-BASED ENTERPRISE MARKET, BY REGION, 2024–2029 (USD MILLION)

### 6.3 SERVICES

#### 6.3.1 NEED TO ENHANCE EFFICIENCY OF PRODUCT MANAGEMENT PROCESS TO BOOST SEGMENTAL GROWTH

#### 6.3.2 PROFESSIONAL SERVICES

##### 6.3.2.1 Consulting & integration services

##### 6.3.2.2 Training, support & maintenance services

#### 6.3.3 MANAGED SERVICES

#### TABLE 24 SERVICES: MODEL-BASED ENTERPRISE MARKET, BY INDUSTRY, 2020–2023 (USD MILLION)

TABLE 25 SERVICES: MODEL-BASED ENTERPRISE MARKET, BY INDUSTRY, 2024–2029 (USD MILLION)

TABLE 26 SERVICES: MODEL-BASED ENTERPRISE MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 27 SERVICES: MODEL-BASED ENTERPRISE MARKET, BY REGION, 2024–2029 (USD MILLION)

## **7 MODEL-BASED ENTERPRISE MARKET, BY DEPLOYMENT TYPE**

### **7.1 INTRODUCTION**

FIGURE 39 MODEL-BASED ENTERPRISE MARKET, BY DEPLOYMENT TYPE

FIGURE 40 ON-PREMISES DEPLOYMENT TYPE TO HOLD LARGER SHARE OF MODEL-BASED ENTERPRISE MARKET IN 2029

TABLE 28 MODEL-BASED ENTERPRISE MARKET, BY DEPLOYMENT TYPE, 2020–2023 (USD MILLION)

TABLE 29 MODEL-BASED ENTERPRISE MARKET, BY DEPLOYMENT TYPE, 2024–2029 (USD MILLION)

### **7.2 ON-PREMISES**

7.2.1 HIGH PREFERENCE FOR ON-PREMISES MODEL-BASED ENTERPRISE DEPLOYMENT FOR ENHANCED DATA SECURITY TO FOSTER SEGMENTAL GROWTH

### **7.3 CLOUD-BASED**

7.3.1 RISING POPULARITY OF CLOUD-BASED DEPLOYMENT MODELS TO FACILITATE COST-EFFICIENT DATA INTEGRATION TO DRIVE MARKET

## **8 MODEL-BASED ENTERPRISE MARKET, BY INDUSTRY**

### **8.1 INTRODUCTION**

FIGURE 41 MODEL-BASED ENTERPRISE MARKET, BY INDUSTRY

FIGURE 42 AEROSPACE INDUSTRY TO HOLD LARGEST MARKET SHARE IN 2029

TABLE 30 MODEL-BASED ENTERPRISE MARKET, BY INDUSTRY, 2020–2023 (USD MILLION)

TABLE 31 MODEL-BASED ENTERPRISE MARKET, BY INDUSTRY, 2024–2029 (USD MILLION)

### **8.2 AEROSPACE**

8.2.1 RISING ADOPTION OF DIGITAL TECHNOLOGIES IN AIRCRAFT PART MANUFACTURING TO FUEL SEGMENTAL GROWTH

TABLE 32 AEROSPACE: MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2020–2023 (USD MILLION)

TABLE 33 AEROSPACE: MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2024–2029 (USD MILLION)

TABLE 34 AEROSPACE: MODEL-BASED ENTERPRISE MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 35 AEROSPACE: MODEL-BASED ENTERPRISE MARKET, BY REGION, 2024–2029 (USD MILLION)

### 8.3 AUTOMOTIVE

8.3.1 INCREASING INNOVATIONS IN AUTOMOBILES AND COMPETITIVE PRESSURE TO DRIVE DEMAND

TABLE 36 AUTOMOTIVE: MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2020–2023 (USD MILLION)

TABLE 37 AUTOMOTIVE: MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2024–2029 (USD MILLION)

TABLE 38 AUTOMOTIVE: MODEL-BASED ENTERPRISE MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 39 AUTOMOTIVE: MODEL-BASED ENTERPRISE MARKET, BY REGION, 2024–2029 (USD MILLION)

### 8.4 CONSTRUCTION

8.4.1 GROWING DEMAND FOR DIGITAL SOLUTIONS TO REDUCE CONSTRUCTION PROJECT TIMELINE TO BOOST SEGMENTAL GROWTH

TABLE 40 CONSTRUCTION: MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2020–2023 (USD MILLION)

TABLE 41 CONSTRUCTION: MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2024–2029 (USD MILLION)

TABLE 42 CONSTRUCTION: MODEL-BASED ENTERPRISE MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 43 CONSTRUCTION: MODEL-BASED ENTERPRISE MARKET, BY REGION, 2024–2029 (USD MILLION)

### 8.5 RETAIL

8.5.1 RISING NEED FOR INTEGRATED PLATFORMS TO IMPROVE SUPPLY CHAIN MANAGEMENT TO DRIVE MARKET

TABLE 44 RETAIL: MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2020–2023 (USD MILLION)

TABLE 45 RETAIL: MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2024–2029 (USD MILLION)

TABLE 46 RETAIL: MODEL-BASED ENTERPRISE MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 47 RETAIL: MODEL-BASED ENTERPRISE MARKET, BY REGION, 2024–2029 (USD MILLION)

## 8.6 POWER & ENERGY

### 8.6.1 SURGING DEMAND FOR RENEWABLE ENERGY TO CONTRIBUTE TO SEGMENTAL GROWTH

TABLE 48 POWER & ENERGY: MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2020–2023 (USD MILLION)

TABLE 49 POWER & ENERGY: MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2024–2029 (USD MILLION)

TABLE 50 POWER & ENERGY: MODEL-BASED ENTERPRISE MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 51 POWER & ENERGY: MODEL-BASED ENTERPRISE MARKET, BY REGION, 2024–2029 (USD MILLION)

## 8.7 FOOD & BEVERAGES

### 8.7.1 INCREASING ENFORCEMENT OF STRINGENT REGULATIONS TO IMPROVE FOOD QUALITY TO AUGMENT SEGMENTAL GROWTH

TABLE 52 FOOD & BEVERAGES: MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2020–2023 (USD MILLION)

TABLE 53 FOOD & BEVERAGES: MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2024–2029 (USD MILLION)

TABLE 54 FOOD & BEVERAGES: MODEL-BASED ENTERPRISE MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 55 FOOD & BEVERAGES: MODEL-BASED ENTERPRISE MARKET, BY REGION, 2024–2029 (USD MILLION)

## 8.8 LIFE SCIENCES & HEALTHCARE

### 8.8.1 RISING EMPHASIS ON IMPROVING PATIENT CARE AND HEALTHCARE OPERATIONS TO PROPEL MARKET

TABLE 56 LIFE SCIENCES & HEALTHCARE: MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2020–2023 (USD MILLION)

TABLE 57 LIFE SCIENCES & HEALTHCARE: MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2024–2029 (USD MILLION)

TABLE 58 LIFE SCIENCES & HEALTHCARE: MODEL-BASED ENTERPRISE MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 59 LIFE SCIENCES & HEALTHCARE: MODEL-BASED ENTERPRISE MARKET, BY REGION, 2024–2029 (USD MILLION)

## 8.9 MARINE

### 8.9.1 MOUNTING INVESTMENT IN COMPUTER-AIDED TOOLS TO IMPROVE MARINE OPERATIONS TO FACILITATE MARKET GROWTH

TABLE 60 MARINE: MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2020–2023 (USD MILLION)

TABLE 61 MARINE: MODEL-BASED ENTERPRISE MARKET, BY OFFERING,

2024–2029 (USD MILLION)

TABLE 62 MARINE: MODEL-BASED ENTERPRISE MARKET, BY REGION,  
2020–2023 (USD MILLION)

TABLE 63 MARINE: MODEL-BASED ENTERPRISE MARKET, BY REGION,  
2024–2029 (USD MILLION)

#### 8.10 OIL & GAS

8.10.1 INCREASING DEPLOYMENT OF MODEL-BASED ENTERPRISE SOLUTIONS  
TO FACILITATE GLOBAL SHARING OF OIL & GAS INFORMATION TO DRIVE  
MARKET

TABLE 64 OIL & GAS: MODEL-BASED ENTERPRISE MARKET, BY OFFERING,  
2020–2023 (USD MILLION)

TABLE 65 OIL & GAS: MODEL-BASED ENTERPRISE MARKET, BY OFFERING,  
2024–2029 (USD MILLION)

TABLE 66 OIL & GAS: MODEL-BASED ENTERPRISE MARKET, BY REGION,  
2020–2023 (USD MILLION)

TABLE 67 OIL & GAS: MODEL-BASED ENTERPRISE MARKET, BY REGION,  
2024–2029 (USD MILLION)

#### 8.11 ELECTRONICS & TELECOMMUNICATIONS

8.11.1 RISING COMPLEXITY OF ELECTRONICS & TELECOMMUNICATION  
EQUIPMENT MANUFACTURING TO AUGMENT SEGMENTAL GROWTH

TABLE 68 ELECTRONICS & TELECOMMUNICATIONS: MODEL-BASED  
ENTERPRISE MARKET, BY OFFERING, 2020–2023 (USD MILLION)

TABLE 69 ELECTRONICS & TELECOMMUNICATIONS: MODEL-BASED  
ENTERPRISE MARKET, BY OFFERING, 2024–2029 (USD MILLION)

TABLE 70 ELECTRONICS & TELECOMMUNICATIONS: MODEL-BASED  
ENTERPRISE MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 71 ELECTRONICS & TELECOMMUNICATIONS: MODEL-BASED  
ENTERPRISE MARKET, BY REGION, 2024–2029 (USD MILLION)

#### 8.12 OTHER INDUSTRIES

TABLE 72 OTHER INDUSTRIES: MODEL-BASED ENTERPRISE MARKET, BY  
OFFERING, 2020–2023 (USD MILLION)

TABLE 73 OTHER INDUSTRIES: MODEL-BASED ENTERPRISE MARKET, BY  
OFFERING, 2024–2029 (USD MILLION)

TABLE 74 OTHER INDUSTRIES: MODEL-BASED ENTERPRISE MARKET, BY  
REGION, 2020–2023 (USD MILLION)

TABLE 75 OTHER INDUSTRIES: MODEL-BASED ENTERPRISE MARKET, BY  
REGION, 2024–2029 (USD MILLION)

## 9 MODEL-BASED ENTERPRISE MARKET, BY REGION

*Model Based Enterprise Market by Offering (Solutions, Services), Deployment Type (On-premise, Cloud), Industry...*



## 9.1 INTRODUCTION

FIGURE 43 MODEL-BASED ENTERPRISE MARKET, BY REGION

FIGURE 44 INDIA TO EXHIBIT HIGHEST CAGR IN MODEL-BASED ENTERPRISE MARKET DURING FORECAST PERIOD

TABLE 76 MODEL-BASED ENTERPRISE MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 77 MODEL-BASED ENTERPRISE MARKET, BY REGION, 2024–2029 (USD MILLION)

## 9.2 NORTH AMERICA

9.2.1 RECESSION IMPACT ON MODEL-BASED ENTERPRISE MARKET IN NORTH AMERICA

FIGURE 45 NORTH AMERICA: MODEL-BASED ENTERPRISE MARKET SNAPSHOT

FIGURE 46 US TO HOLD LARGEST SHARE OF NORTH AMERICAN MODEL-BASED ENTERPRISE MARKET IN 2029

TABLE 78 NORTH AMERICA: MODEL-BASED ENTERPRISE MARKET, BY COUNTRY, 2020–2023 (USD MILLION)

TABLE 79 NORTH AMERICA: MODEL-BASED ENTERPRISE MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 80 NORTH AMERICA: MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2020–2023 (USD MILLION)

TABLE 81 NORTH AMERICA: MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2024–2029 (USD MILLION)

TABLE 82 NORTH AMERICA: MODEL-BASED ENTERPRISE MARKET, BY INDUSTRY, 2020–2023 (USD MILLION)

TABLE 83 NORTH AMERICA: MODEL-BASED ENTERPRISE MARKET, BY INDUSTRY, 2024–2029 (USD MILLION)

### 9.2.2 US

9.2.2.1 Increasing adoption of digital technologies to contribute to market growth

### 9.2.3 CANADA

9.2.3.1 Rising emphasis on achieving Industry 4.0 targets to foster market growth

### 9.2.4 MEXICO

9.2.4.1 Surging need for software to optimize manufacturing costs and efficiency to propel market

## 9.3 EUROPE

9.3.1 RECESSION IMPACT ON MODEL-BASED ENTERPRISE MARKET IN EUROPE

FIGURE 47 EUROPE: MODEL-BASED ENTERPRISE MARKET SNAPSHOT

FIGURE 48 GERMANY TO REGISTER HIGHEST CAGR IN EUROPEAN MODEL-



**BASED ENTERPRISE MARKET FROM 2024 TO 2029**

TABLE 84 EUROPE: MODEL-BASED ENTERPRISE MARKET, BY COUNTRY, 2020–2023 (USD MILLION)

TABLE 85 EUROPE: MODEL-BASED ENTERPRISE MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 86 EUROPE: MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2020–2023 (USD MILLION)

TABLE 87 EUROPE: MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2024–2029 (USD MILLION)

TABLE 88 EUROPE: MODEL-BASED ENTERPRISE MARKET, BY INDUSTRY, 2020–2023 (USD MILLION)

TABLE 89 EUROPE: MODEL-BASED ENTERPRISE MARKET, BY INDUSTRY, 2024–2029 (USD MILLION)

**9.3.2 UK**

9.3.2.1 Rising number of incentive programs for innovative technologies to propel market

**9.3.3 GERMANY**

9.3.3.1 Increasing initiatives to support computerized manufacturing to expedite market growth

**9.3.4 FRANCE**

9.3.4.1 Surging demand for cloud computing and IoT technologies to fuel market growth

**9.3.5 REST OF EUROPE****9.4 ASIA PACIFIC**

9.4.1 RECESSION IMPACT ON MODEL-BASED ENTERPRISE MARKET IN ASIA PACIFIC

FIGURE 49 ASIA PACIFIC: MODEL-BASED ENTERPRISE MARKET SNAPSHOT

FIGURE 50 CHINA TO DOMINATE ASIA PACIFIC MODEL-BASED ENTERPRISE MARKET FROM 2024 TO 2029

TABLE 90 ASIA PACIFIC: MODEL-BASED ENTERPRISE MARKET, BY COUNTRY, 2020–2023 (USD MILLION)

TABLE 91 ASIA PACIFIC: MODEL-BASED ENTERPRISE MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 92 ASIA PACIFIC: MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2020–2023 (USD MILLION)

TABLE 93 ASIA PACIFIC: MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2024–2029 (USD MILLION)

TABLE 94 ASIA PACIFIC: MODEL-BASED ENTERPRISE MARKET, BY INDUSTRY, 2020–2023 (USD MILLION)

**TABLE 95 ASIA PACIFIC: MODEL-BASED ENTERPRISE MARKET, BY INDUSTRY, 2024–2029 (USD MILLION)****9.4.2 JAPAN**

9.4.2.1 Rising deployment of digital technologies to augment market growth

**9.4.3 CHINA**

9.4.3.1 Increasing adoption of advanced manufacturing strategies to contribute to market growth

**9.4.4 INDIA**

9.4.4.1 Mounting demand for supply chain management technologies to accelerate market growth

**9.4.5 SOUTH KOREA**

9.4.5.1 Rising emphasis on development of industrial and manufacturing sectors through digital revolution to boost market growth

**9.4.6 AUSTRALIA**

9.4.6.1 Increasing implementation of digital economy strategies to facilitate market growth

**9.4.7 REST OF ASIA PACIFIC****9.5 ROW**

9.5.1 RECESSION IMPACT ON MODEL-BASED ENTERPRISE MARKET IN ROW  
FIGURE 51 SOUTH AMERICA TO ACCOUNT FOR LARGEST SHARE OF ROW  
MODEL-BASED ENTERPRISE MARKET IN 2029

**TABLE 96 ROW: MODEL-BASED ENTERPRISE MARKET, BY REGION, 2020–2023 (USD MILLION)****TABLE 97 ROW: MODEL-BASED ENTERPRISE MARKET, BY REGION, 2024–2029 (USD MILLION)****TABLE 98 ROW: MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2020–2023 (USD MILLION)****TABLE 99 ROW: MODEL-BASED ENTERPRISE MARKET, BY OFFERING, 2024–2029 (USD MILLION)****TABLE 100 ROW: MODEL-BASED ENTERPRISE MARKET, BY INDUSTRY, 2020–2023 (USD MILLION)****TABLE 101 ROW: MODEL-BASED ENTERPRISE MARKET, BY INDUSTRY, 2024–2029 (USD MILLION)****9.5.2 MIDDLE EAST****TABLE 102 MIDDLE EAST: MODEL-BASED ENTERPRISE MARKET, BY COUNTRY/REGION, 2020–2023 (USD MILLION)****TABLE 103 MIDDLE EAST: MODEL-BASED ENTERPRISE MARKET, BY COUNTRY/REGION, 2024–2029 (USD MILLION)****9.5.2.1 GCC countries**

9.5.2.1.1 Increasing adoption of 3D modelling and PLM tools to drive market

9.5.2.2 Rest of Middle East

9.5.3 AFRICA

9.5.3.1 Rising focus on ensuring reliable energy supply to boost digital transformation to drive market

9.5.4 SOUTH AMERICA

9.5.4.1 Increasing internet usage and technological innovation to foster market growth

## **10 COMPETITIVE LANDSCAPE**

10.1 INTRODUCTION

10.2 STRATEGIES ADOPTED BY KEY PLAYERS, 2021–2023

TABLE 104 MODEL-BASED ENTERPRISE MARKET: OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS, 2021–2023

10.3 REVENUE ANALYSIS, 2018–2022

FIGURE 52 MODEL-BASED ENTERPRISE MARKET: REVENUE ANALYSIS OF KEY PLAYERS, 2018–2022

10.4 MARKET SHARE ANALYSIS, 2023

TABLE 105 MODEL-BASED ENTERPRISE MARKET: DEGREE OF COMPETITION, 2023

FIGURE 53 MODEL-BASED ENTERPRISE MARKET SHARE ANALYSIS, 2023

10.5 COMPANY VALUATION AND FINANCIAL METRICS, 2023

FIGURE 54 MODEL-BASED ENTERPRISE MARKET: COMPANY VALUATION, 2023 (USD MILLION)

FIGURE 55 MODEL-BASED ENTERPRISE MARKET: FINANCIAL METRICS (EV/EBITDA), 2023

10.6 BRAND/PRODUCT COMPARISON

FIGURE 56 MODEL-BASED ENTERPRISE MARKET: BRAND/PRODUCT COMPARISON

10.7 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023

10.7.1 STARS

10.7.2 EMERGING LEADERS

10.7.3 PERVASIVE PLAYERS

10.7.4 PARTICIPANTS

FIGURE 57 MODEL-BASED ENTERPRISE MARKET: COMPANY EVALUATION MATRIX (KEY PLAYERS), 2023

10.7.5 COMPANY FOOTPRINT: KEY PLAYERS, 2023

10.7.5.1 Overall footprint

**FIGURE 58 MODEL-BASED ENTERPRISE MARKET: OVERALL FOOTPRINT**

## 10.7.5.2 Industry footprint

**TABLE 106 MODEL-BASED ENTERPRISE MARKET: INDUSTRY FOOTPRINT**

## 10.7.5.3 Offering footprint

**TABLE 107 MODEL-BASED ENTERPRISE MARKET: OFFERING FOOTPRINT**

## 10.7.5.4 Deployment type footprint

**TABLE 108 MODEL-BASED ENTERPRISE MARKET: DEPLOYMENT TYPE FOOTPRINT**

## 10.7.5.5 Region footprint

**TABLE 109 MODEL-BASED ENTERPRISE MARKET: REGION FOOTPRINT****10.8 COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2023**

## 10.8.1 PROGRESSIVE COMPANIES

## 10.8.2 RESPONSIVE COMPANIES

## 10.8.3 DYNAMIC COMPANIES

## 10.8.4 STARTING BLOCKS

**FIGURE 59 MODEL-BASED ENTERPRISE MARKET: COMPANY EVALUATION MATRIX (STARTUPS/SMES), 2023**

## 10.8.5 COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2023

## 10.8.5.1 List of key startups/SMEs

**TABLE 110 MODEL-BASED ENTERPRISE MARKET: LIST OF KEY STARTUPS/SMES**

## 10.8.5.2 Competitive benchmarking of key startups/SMEs

**TABLE 111 MODEL-BASED ENTERPRISE MARKET: STARTUPS/SMES FOOTPRINT****10.9 COMPETITIVE SCENARIOS AND TRENDS**

## 10.9.1 PRODUCT LAUNCHES

**TABLE 112 MODEL-BASED ENTERPRISE MARKET: PRODUCT LAUNCHES, APRIL 2022–MARCH 2023**

## 10.9.2 DEALS

**TABLE 113 MODEL-BASED ENTERPRISE MARKET: DEALS, JANUARY 2021–FEBRUARY 2024****11 COMPANY PROFILES**

(Business Overview, Products/Solutions/Services Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats))\*

**11.1 KEY PLAYERS**

## 11.1.1 SIEMENS

**TABLE 114 SIEMENS: COMPANY OVERVIEW**

FIGURE 60 SIEMENS: COMPANY SNAPSHOT

TABLE 115 SIEMENS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

11.1.2 PTC

TABLE 116 PTC: COMPANY OVERVIEW

FIGURE 61 PTC: COMPANY SNAPSHOT

TABLE 117 PTC: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 118 PTC: PRODUCT LAUNCHES

TABLE 119 PTC: DEALS

11.1.3 DASSAULT SYST?MES

TABLE 120 DASSAULT SYST?MES: COMPANY OVERVIEW

FIGURE 62 DASSAULT SYST?MES: COMPANY SNAPSHOT

TABLE 121 DASSAULT SYST?MES: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 122 DASSAULT SYST?MES: DEALS

11.1.4 SAP

TABLE 123 SAP: COMPANY OVERVIEW

FIGURE 63 SAP: COMPANY SNAPSHOT

TABLE 124 SAP: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 125 SAP: DEALS

11.1.5 AUTODESK INC.

TABLE 126 AUTODESK INC.: COMPANY OVERVIEW

FIGURE 64 AUTODESK INC.: COMPANY SNAPSHOT

TABLE 127 AUTODESK INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

11.1.6 HCL TECHNOLOGIES LIMITED

TABLE 128 HCL TECHNOLOGIES LIMITED: COMPANY OVERVIEW

FIGURE 65 HCL TECHNOLOGIES LIMITED: COMPANY SNAPSHOT

TABLE 129 HCL TECHNOLOGIES LIMITED: PRODUCTS/SOLUTIONS/SERVICES OFFERED

11.1.7 ORACLE

TABLE 130 ORACLE: COMPANY OVERVIEW

FIGURE 66 ORACLE: COMPANY SNAPSHOT

TABLE 131 ORACLE: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 132 ORACLE: DEALS

11.1.8 WIPRO

TABLE 133 WIPRO: COMPANY OVERVIEW

FIGURE 67 WIPRO: COMPANY SNAPSHOT

TABLE 134 WIPRO: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 135 WIPRO: DEALS

11.1.9 ANSYS, INC

TABLE 136 ANSYS, INC: COMPANY OVERVIEW

FIGURE 68 ANSYS, INC: COMPANY SNAPSHOT

TABLE 137 ANSYS, INC: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 138 ANSYS, INC: DEALS

11.1.10 BENTLEY SYSTEMS, INCORPORATED

TABLE 139 BENTLEY SYSTEMS, INCORPORATED: COMPANY OVERVIEW

FIGURE 69 BENTLEY SYSTEMS, INCORPORATED: COMPANY SNAPSHOT

TABLE 140 BENTLEY SYSTEMS, INCORPORATED:  
PRODUCTS/SOLUTIONS/SERVICES OFFERED

11.2 OTHER PLAYERS

11.2.1 ARAS

11.2.2 ANARK CORPORATION

11.2.3 INFOR

11.2.4 IBASE-T

11.2.5 VIAS3D

11.2.6 CTSOLUTIONS.ES

11.2.7 CAPVIDIA

11.2.8 COMBITECH

11.2.9 ZUKEN

11.2.10 RHEA GROUP

11.2.11 TOM SAWYER SOFTWARE

11.2.12 GS ENGINEERING INC.

11.2.13 COLLINS AEROSPACE

11.2.14 TRIGON CYBER

11.2.15 JAMA SOFTWARE

\*Details on Business Overview, Products/Solutions/Services Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

## 12 ADJACENT MARKET

12.1 INTRODUCTION

12.2 SMART MANUFACTURING MARKET, BY ENABLING TECHNOLOGY

TABLE 141 SMART MANUFACTURING MARKET, BY ENABLING TECHNOLOGY,  
2019–2022 (USD MILLION)

TABLE 142 SMART MANUFACTURING MARKET, BY ENABLING TECHNOLOGY,  
2023–2028 (USD MILLION)

TABLE 143 ENABLING TECHNOLOGY: SMART MANUFACTURING MARKET, BY  
REGION, 2019–2022 (USD MILLION)

TABLE 144 ENABLING TECHNOLOGY: SMART MANUFACTURING MARKET, BY REGION, 2023–2028 (USD MILLION)

TABLE 145 ENABLING TECHNOLOGY: SMART MANUFACTURING MARKET, BY PROCESS INDUSTRY, 2019–2022 (USD MILLION)

TABLE 146 ENABLING TECHNOLOGY: SMART MANUFACTURING MARKET, BY PROCESS INDUSTRY, 2023–2028 (USD MILLION)

TABLE 147 ENABLING TECHNOLOGY: SMART MANUFACTURING MARKET, BY DISCRETE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 148 ENABLING TECHNOLOGY: SMART MANUFACTURING MARKET, BY DISCRETE INDUSTRY, 2023–2028 (USD MILLION)

#### 12.2.1 INDUSTRIAL 3D PRINTING

12.2.1.1 Emphasis on simplifying manufacturing of parts with complex designs to boost segmental growth

#### 12.2.2 INDUSTRIAL 3D PRINTING, BY OFFERING

##### 12.2.2.1 Printers

##### 12.2.2.2 Materials

##### 12.2.2.3 Software

##### 12.2.2.4 Services

## 13 APPENDIX

### 13.1 INSIGHTS FROM INDUSTRY EXPERTS

### 13.2 DISCUSSION GUIDE

### 13.3 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

### 13.4 CUSTOMIZATION OPTIONS

### 13.5 RELATED REPORTS

### 13.6 AUTHOR DETAILS



## I would like to order

Product name: Model Based Enterprise Market by Offering (Solutions, Services), Deployment Type (On-premise, Cloud), Industry (Aerospace, Automotive, Construction, Power & Energy, Food & Beverages, Life Sciences & Healthcare, Marine), Region - Global Forecast to 2029

Product link: <https://marketpublishers.com/r/M7262A5AA2CEN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/M7262A5AA2CEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:

Last name:

Email:

Company:

Address:

City:

Zip code:

Country:

Tel:

Fax:

Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970