

# Global FEA & CFD Simulation and Analysis Softwares Industry Research Report, Competitive Landscape, Market Size, Regional Status and Prospect

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### **Abstracts**

CFD (computational fluid dynamics) includes any numerical method used to solve fluid flow problems. FEA (finite element analysis) is one numerical method for solving partial differential equations, independent of what the equations are modelling. Simulation and Analysis Softwares is a program that allows the user to observe an operation through simulation without actually performing that operation.

The report combines extensive quantitative analysis and exhaustive qualitative analysis, ranges from a macro overview of the total market size, industry chain, and market dynamics to micro details of segment markets by type, application and region, and, as a result, provides a holistic view of, as well as a deep insight into the FEA & CFD Simulation and Analysis Softwares market covering all its essential aspects.

For the competitive landscape, the report also introduces players in the industry from the perspective of the market share, concentration ratio, etc., and describes the leading companies in detail, with which the readers can get a better idea of their competitors and acquire an in-depth understanding of the competitive situation. Further, mergers & acquisitions, emerging market trends, the impact of COVID-19, and regional conflicts will all be considered.

In a nutshell, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the market in any manner.

Key players in the global FEA & CFD Simulation and Analysis Softwares market are covered in Chapter 9:



MSC Software

CD-adapco

Altair Engineering

Flow Science

**Ansys** 

AspenTech

Numeca International

Computational Engineering International

Autodesk

Mentor Graphics

**Dassault Systemes** 

Exa

**NEi Software** 

**ESI Group** 

In Chapter 5 and Chapter 7.3, based on types, the FEA & CFD Simulation and Analysis Softwares market from 2017 to 2027 is primarily split into:

**FEA** 

**CFD** 

In Chapter 6 and Chapter 7.4, based on applications, the FEA & CFD Simulation and Analysis Softwares market from 2017 to 2027 covers:

Automotive industry
Aerospace and defense industry
Electrical & electronics industry
Industrial machinery industry
Remote Control Hobby Car Industry
High End RC cars
Others

Geographically, the detailed analysis of consumption, revenue, market share and growth rate, historical data and forecast (2017-2027) of the following regions are covered in Chapter 4 and Chapter 7:

### **United States**



Europe
China
Japan
India
Southeast Asia
Latin America
Middle East and Africa

#### Client Focus

1. Does this report consider the impact of COVID-19 and the Russia-Ukraine war on the FEA & CFD Simulation and Analysis Softwares market?

Yes. As the COVID-19 and the Russia-Ukraine war are profoundly affecting the global supply chain relationship and raw material price system, we have definitely taken them into consideration throughout the research, and in Chapters 1.7, 2.7, 4.X.1, 7.5, 8.7, we elaborate at full length on the impact of the pandemic and the war on the FEA & CFD Simulation and Analysis Softwares Industry.

2. How do you determine the list of the key players included in the report?

With the aim of clearly revealing the competitive situation of the industry, we concretely analyze not only the leading enterprises that have a voice on a global scale, but also the regional small and medium-sized companies that play key roles and have plenty of potential growth.

Please find the key player list in Summary.

3. What are your main data sources?

Both Primary and Secondary data sources are being used while compiling the report.

Primary sources include extensive interviews of key opinion leaders and industry experts (such as experienced front-line staff, directors, CEOs, and marketing executives), downstream distributors, as well as end-users.

Secondary sources include the research of the annual and financial reports of the top companies, public files, new journals, etc. We also cooperate with some third-party databases.



Please find a more complete list of data sources in Chapters 11.2.1 & 11.2.2.

4. Can I modify the scope of the report and customize it to suit my requirements?

Yes. Customized requirements of multi-dimensional, deep-level and high-quality can help our customers precisely grasp market opportunities, effortlessly confront market challenges, properly formulate market strategies and act promptly, thus to win them sufficient time and space for market competition.

### Outline

Chapter 1 mainly defines the market scope and introduces the macro overview of the industry, with an executive summary of different market segments ((by type, application, region, etc.), including the definition, market size, and trend of each market segment.

Chapter 2 provides a qualitative analysis of the current status and future trends of the market. Industry Entry Barriers, market drivers, market challenges, emerging markets, consumer preference analysis, together with the impact of the COVID-19 outbreak will all be thoroughly explained.

Chapter 3 analyzes the current competitive situation of the market by providing data regarding the players, including their sales volume and revenue with corresponding market shares, price and gross margin. In addition, information about market concentration ratio, mergers, acquisitions, and expansion plans will also be covered.

Chapter 4 focuses on the regional market, presenting detailed data (i.e., sales volume, revenue, price, gross margin) of the most representative regions and countries in the world.

Chapter 5 provides the analysis of various market segments according to product types, covering sales volume, revenue along with market share and growth rate, plus the price analysis of each type.

Chapter 6 shows the breakdown data of different applications, including the consumption and revenue with market share and growth rate, with the aim of helping the readers to take a close-up look at the downstream market.

Chapter 7 provides a combination of quantitative and qualitative analyses of the market



size and development trends in the next five years. The forecast information of the whole, as well as the breakdown market, offers the readers a chance to look into the future of the industry.

Chapter 8 is the analysis of the whole market industrial chain, covering key raw materials suppliers and price analysis, manufacturing cost structure analysis, alternative product analysis, also providing information on major distributors, downstream buyers, and the impact of COVID-19 pandemic.

Chapter 9 shares a list of the key players in the market, together with their basic information, product profiles, market performance (i.e., sales volume, price, revenue, gross margin), recent development, SWOT analysis, etc.

Chapter 10 is the conclusion of the report which helps the readers to sum up the main findings and points.

Chapter 11 introduces the market research methods and data sources.

Years considered for this report:

Historical Years: 2017-2021

Base Year: 2021

Estimated Year: 2022

Forecast Period: 2022-2027



### **Contents**

### 1 FEA & CFD SIMULATION AND ANALYSIS SOFTWARES MARKET OVERVIEW

- 1.1 Product Overview and Scope of FEA & CFD Simulation and Analysis Softwares Market
- 1.2 FEA & CFD Simulation and Analysis Softwares Market Segment by Type
- 1.2.1 Global FEA & CFD Simulation and Analysis Softwares Market Sales Volume and CAGR (%) Comparison by Type (2017-2027)
- 1.3 Global FEA & CFD Simulation and Analysis Softwares Market Segment by Application
- 1.3.1 FEA & CFD Simulation and Analysis Softwares Market Consumption (Sales Volume) Comparison by Application (2017-2027)
- 1.4 Global FEA & CFD Simulation and Analysis Softwares Market, Region Wise (2017-2027)
- 1.4.1 Global FEA & CFD Simulation and Analysis Softwares Market Size (Revenue) and CAGR (%) Comparison by Region (2017-2027)
- 1.4.2 United States FEA & CFD Simulation and Analysis Softwares Market Status and Prospect (2017-2027)
- 1.4.3 Europe FEA & CFD Simulation and Analysis Softwares Market Status and Prospect (2017-2027)
- 1.4.4 China FEA & CFD Simulation and Analysis Softwares Market Status and Prospect (2017-2027)
- 1.4.5 Japan FEA & CFD Simulation and Analysis Softwares Market Status and Prospect (2017-2027)
- 1.4.6 India FEA & CFD Simulation and Analysis Softwares Market Status and Prospect (2017-2027)
- 1.4.7 Southeast Asia FEA & CFD Simulation and Analysis Softwares Market Status and Prospect (2017-2027)
- 1.4.8 Latin America FEA & CFD Simulation and Analysis Softwares Market Status and Prospect (2017-2027)
- 1.4.9 Middle East and Africa FEA & CFD Simulation and Analysis Softwares Market Status and Prospect (2017-2027)
- 1.5 Global Market Size of FEA & CFD Simulation and Analysis Softwares (2017-2027)
- 1.5.1 Global FEA & CFD Simulation and Analysis Softwares Market Revenue Status and Outlook (2017-2027)
- 1.5.2 Global FEA & CFD Simulation and Analysis Softwares Market Sales Volume Status and Outlook (2017-2027)
- 1.6 Global Macroeconomic Analysis



1.7 The impact of the Russia-Ukraine war on the FEA & CFD Simulation and Analysis Softwares Market

### 2 INDUSTRY OUTLOOK

- 2.1 FEA & CFD Simulation and Analysis Softwares Industry Technology Status and Trends
- 2.2 Industry Entry Barriers
  - 2.2.1 Analysis of Financial Barriers
  - 2.2.2 Analysis of Technical Barriers
  - 2.2.3 Analysis of Talent Barriers
  - 2.2.4 Analysis of Brand Barrier
- 2.3 FEA & CFD Simulation and Analysis Softwares Market Drivers Analysis
- 2.4 FEA & CFD Simulation and Analysis Softwares Market Challenges Analysis
- 2.5 Emerging Market Trends
- 2.6 Consumer Preference Analysis
- 2.7 FEA & CFD Simulation and Analysis Softwares Industry Development Trends under COVID-19 Outbreak
  - 2.7.1 Global COVID-19 Status Overview
- 2.7.2 Influence of COVID-19 Outbreak on FEA & CFD Simulation and Analysis Softwares Industry Development

# 3 GLOBAL FEA & CFD SIMULATION AND ANALYSIS SOFTWARES MARKET LANDSCAPE BY PLAYER

- 3.1 Global FEA & CFD Simulation and Analysis Softwares Sales Volume and Share by Player (2017-2022)
- 3.2 Global FEA & CFD Simulation and Analysis Softwares Revenue and Market Share by Player (2017-2022)
- 3.3 Global FEA & CFD Simulation and Analysis Softwares Average Price by Player (2017-2022)
- 3.4 Global FEA & CFD Simulation and Analysis Softwares Gross Margin by Player (2017-2022)
- 3.5 FEA & CFD Simulation and Analysis Softwares Market Competitive Situation and Trends
  - 3.5.1 FEA & CFD Simulation and Analysis Softwares Market Concentration Rate
- 3.5.2 FEA & CFD Simulation and Analysis Softwares Market Share of Top 3 and Top 6 Players
  - 3.5.3 Mergers & Acquisitions, Expansion



# 4 GLOBAL FEA & CFD SIMULATION AND ANALYSIS SOFTWARES SALES VOLUME AND REVENUE REGION WISE (2017-2022)

- 4.1 Global FEA & CFD Simulation and Analysis Softwares Sales Volume and Market Share, Region Wise (2017-2022)
- 4.2 Global FEA & CFD Simulation and Analysis Softwares Revenue and Market Share, Region Wise (2017-2022)
- 4.3 Global FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue, Price and Gross Margin (2017-2022)
- 4.4 United States FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue, Price and Gross Margin (2017-2022)
- 4.4.1 United States FEA & CFD Simulation and Analysis Softwares Market Under COVID-19
- 4.5 Europe FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue, Price and Gross Margin (2017-2022)
- 4.5.1 Europe FEA & CFD Simulation and Analysis Softwares Market Under COVID-194.6 China FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue,Price and Gross Margin (2017-2022)
- 4.6.1 China FEA & CFD Simulation and Analysis Softwares Market Under COVID-19
  4.7 Japan FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue,
  Price and Gross Margin (2017-2022)
- 4.7.1 Japan FEA & CFD Simulation and Analysis Softwares Market Under COVID-19 4.8 India FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue, Price and Gross Margin (2017-2022)
- 4.8.1 India FEA & CFD Simulation and Analysis Softwares Market Under COVID-19
  4.9 Southeast Asia FEA & CFD Simulation and Analysis Softwares Sales Volume,
  Revenue, Price and Gross Margin (2017-2022)
- 4.9.1 Southeast Asia FEA & CFD Simulation and Analysis Softwares Market Under COVID-19
- 4.10 Latin America FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue, Price and Gross Margin (2017-2022)
- 4.10.1 Latin America FEA & CFD Simulation and Analysis Softwares Market Under COVID-19
- 4.11 Middle East and Africa FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue, Price and Gross Margin (2017-2022)
- 4.11.1 Middle East and Africa FEA & CFD Simulation and Analysis Softwares Market Under COVID-19



# 5 GLOBAL FEA & CFD SIMULATION AND ANALYSIS SOFTWARES SALES VOLUME, REVENUE, PRICE TREND BY TYPE

- 5.1 Global FEA & CFD Simulation and Analysis Softwares Sales Volume and Market Share by Type (2017-2022)
- 5.2 Global FEA & CFD Simulation and Analysis Softwares Revenue and Market Share by Type (2017-2022)
- 5.3 Global FEA & CFD Simulation and Analysis Softwares Price by Type (2017-2022)
- 5.4 Global FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue and Growth Rate by Type (2017-2022)
- 5.4.1 Global FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue and Growth Rate of FEA (2017-2022)
- 5.4.2 Global FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue and Growth Rate of CFD (2017-2022)

### 6 GLOBAL FEA & CFD SIMULATION AND ANALYSIS SOFTWARES MARKET ANALYSIS BY APPLICATION

- 6.1 Global FEA & CFD Simulation and Analysis Softwares Consumption and Market Share by Application (2017-2022)
- 6.2 Global FEA & CFD Simulation and Analysis Softwares Consumption Revenue and Market Share by Application (2017-2022)
- 6.3 Global FEA & CFD Simulation and Analysis Softwares Consumption and Growth Rate by Application (2017-2022)
- 6.3.1 Global FEA & CFD Simulation and Analysis Softwares Consumption and Growth Rate of Automotive industry (2017-2022)
- 6.3.2 Global FEA & CFD Simulation and Analysis Softwares Consumption and Growth Rate of Aerospace and defense industry (2017-2022)
- 6.3.3 Global FEA & CFD Simulation and Analysis Softwares Consumption and Growth Rate of Electrical & electronics industry (2017-2022)
- 6.3.4 Global FEA & CFD Simulation and Analysis Softwares Consumption and Growth Rate of Industrial machinery industry (2017-2022)
- 6.3.5 Global FEA & CFD Simulation and Analysis Softwares Consumption and Growth Rate of Remote Control Hobby Car Industry (2017-2022)
- 6.3.6 Global FEA & CFD Simulation and Analysis Softwares Consumption and Growth Rate of High End RC cars (2017-2022)
- 6.3.7 Global FEA & CFD Simulation and Analysis Softwares Consumption and Growth Rate of Others (2017-2022)



# 7 GLOBAL FEA & CFD SIMULATION AND ANALYSIS SOFTWARES MARKET FORECAST (2022-2027)

- 7.1 Global FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue Forecast (2022-2027)
- 7.1.1 Global FEA & CFD Simulation and Analysis Softwares Sales Volume and Growth Rate Forecast (2022-2027)
- 7.1.2 Global FEA & CFD Simulation and Analysis Softwares Revenue and Growth Rate Forecast (2022-2027)
- 7.1.3 Global FEA & CFD Simulation and Analysis Softwares Price and Trend Forecast (2022-2027)
- 7.2 Global FEA & CFD Simulation and Analysis Softwares Sales Volume and Revenue Forecast, Region Wise (2022-2027)
- 7.2.1 United States FEA & CFD Simulation and Analysis Softwares Sales Volume and Revenue Forecast (2022-2027)
- 7.2.2 Europe FEA & CFD Simulation and Analysis Softwares Sales Volume and Revenue Forecast (2022-2027)
- 7.2.3 China FEA & CFD Simulation and Analysis Softwares Sales Volume and Revenue Forecast (2022-2027)
- 7.2.4 Japan FEA & CFD Simulation and Analysis Softwares Sales Volume and Revenue Forecast (2022-2027)
- 7.2.5 India FEA & CFD Simulation and Analysis Softwares Sales Volume and Revenue Forecast (2022-2027)
- 7.2.6 Southeast Asia FEA & CFD Simulation and Analysis Softwares Sales Volume and Revenue Forecast (2022-2027)
- 7.2.7 Latin America FEA & CFD Simulation and Analysis Softwares Sales Volume and Revenue Forecast (2022-2027)
- 7.2.8 Middle East and Africa FEA & CFD Simulation and Analysis Softwares Sales Volume and Revenue Forecast (2022-2027)
- 7.3 Global FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue and Price Forecast by Type (2022-2027)
- 7.3.1 Global FEA & CFD Simulation and Analysis Softwares Revenue and Growth Rate of FEA (2022-2027)
- 7.3.2 Global FEA & CFD Simulation and Analysis Softwares Revenue and Growth Rate of CFD (2022-2027)
- 7.4 Global FEA & CFD Simulation and Analysis Softwares Consumption Forecast by Application (2022-2027)
- 7.4.1 Global FEA & CFD Simulation and Analysis Softwares Consumption Value and Growth Rate of Automotive industry(2022-2027)



- 7.4.2 Global FEA & CFD Simulation and Analysis Softwares Consumption Value and Growth Rate of Aerospace and defense industry(2022-2027)
- 7.4.3 Global FEA & CFD Simulation and Analysis Softwares Consumption Value and Growth Rate of Electrical & electronics industry(2022-2027)
- 7.4.4 Global FEA & CFD Simulation and Analysis Softwares Consumption Value and Growth Rate of Industrial machinery industry(2022-2027)
- 7.4.5 Global FEA & CFD Simulation and Analysis Softwares Consumption Value and Growth Rate of Remote Control Hobby Car Industry(2022-2027)
- 7.4.6 Global FEA & CFD Simulation and Analysis Softwares Consumption Value and Growth Rate of High End RC cars(2022-2027)
- 7.4.7 Global FEA & CFD Simulation and Analysis Softwares Consumption Value and Growth Rate of Others(2022-2027)
- 7.5 FEA & CFD Simulation and Analysis Softwares Market Forecast Under COVID-19

# 8 FEA & CFD SIMULATION AND ANALYSIS SOFTWARES MARKET UPSTREAM AND DOWNSTREAM ANALYSIS

- 8.1 FEA & CFD Simulation and Analysis Softwares Industrial Chain Analysis
- 8.2 Key Raw Materials Suppliers and Price Analysis
- 8.3 Manufacturing Cost Structure Analysis
  - 8.3.1 Labor Cost Analysis
  - 8.3.2 Energy Costs Analysis
  - 8.3.3 R&D Costs Analysis
- 8.4 Alternative Product Analysis
- 8.5 Major Distributors of FEA & CFD Simulation and Analysis Softwares Analysis
- 8.6 Major Downstream Buyers of FEA & CFD Simulation and Analysis Softwares Analysis
- 8.7 Impact of COVID-19 and the Russia-Ukraine war on the Upstream and Downstream in the FEA & CFD Simulation and Analysis Softwares Industry

#### 9 PLAYERS PROFILES

- 9.1 MSC Software
- 9.1.1 MSC Software Basic Information, Manufacturing Base, Sales Region and Competitors
- 9.1.2 FEA & CFD Simulation and Analysis Softwares Product Profiles, Application and Specification
  - 9.1.3 MSC Software Market Performance (2017-2022)
- 9.1.4 Recent Development



- 9.1.5 SWOT Analysis
- 9.2 CD-adapco
- 9.2.1 CD-adapco Basic Information, Manufacturing Base, Sales Region and
- Competitors
- 9.2.2 FEA & CFD Simulation and Analysis Softwares Product Profiles, Application and Specification
  - 9.2.3 CD-adapco Market Performance (2017-2022)
  - 9.2.4 Recent Development
  - 9.2.5 SWOT Analysis
- 9.3 Altair Engineering
- 9.3.1 Altair Engineering Basic Information, Manufacturing Base, Sales Region and Competitors
- 9.3.2 FEA & CFD Simulation and Analysis Softwares Product Profiles, Application and Specification
- 9.3.3 Altair Engineering Market Performance (2017-2022)
- 9.3.4 Recent Development
- 9.3.5 SWOT Analysis
- 9.4 Flow Science
- 9.4.1 Flow Science Basic Information, Manufacturing Base, Sales Region and Competitors
- 9.4.2 FEA & CFD Simulation and Analysis Softwares Product Profiles, Application and Specification
  - 9.4.3 Flow Science Market Performance (2017-2022)
  - 9.4.4 Recent Development
  - 9.4.5 SWOT Analysis
- 9.5 Ansys
  - 9.5.1 Ansys Basic Information, Manufacturing Base, Sales Region and Competitors
- 9.5.2 FEA & CFD Simulation and Analysis Softwares Product Profiles, Application and Specification
  - 9.5.3 Ansys Market Performance (2017-2022)
  - 9.5.4 Recent Development
  - 9.5.5 SWOT Analysis
- 9.6 AspenTech
- 9.6.1 AspenTech Basic Information, Manufacturing Base, Sales Region and Competitors
- 9.6.2 FEA & CFD Simulation and Analysis Softwares Product Profiles, Application and Specification
  - 9.6.3 AspenTech Market Performance (2017-2022)
  - 9.6.4 Recent Development



- 9.6.5 SWOT Analysis
- 9.7 Numeca International
- 9.7.1 Numeca International Basic Information, Manufacturing Base, Sales Region and Competitors
- 9.7.2 FEA & CFD Simulation and Analysis Softwares Product Profiles, Application and Specification
  - 9.7.3 Numeca International Market Performance (2017-2022)
  - 9.7.4 Recent Development
  - 9.7.5 SWOT Analysis
- 9.8 Computational Engineering International
- 9.8.1 Computational Engineering International Basic Information, Manufacturing Base, Sales Region and Competitors
- 9.8.2 FEA & CFD Simulation and Analysis Softwares Product Profiles, Application and Specification
- 9.8.3 Computational Engineering International Market Performance (2017-2022)
- 9.8.4 Recent Development
- 9.8.5 SWOT Analysis
- 9.9 Autodesk
  - 9.9.1 Autodesk Basic Information, Manufacturing Base, Sales Region and Competitors
- 9.9.2 FEA & CFD Simulation and Analysis Softwares Product Profiles, Application and Specification
  - 9.9.3 Autodesk Market Performance (2017-2022)
  - 9.9.4 Recent Development
- 9.9.5 SWOT Analysis
- 9.10 Mentor Graphics
- 9.10.1 Mentor Graphics Basic Information, Manufacturing Base, Sales Region and Competitors
- 9.10.2 FEA & CFD Simulation and Analysis Softwares Product Profiles, Application and Specification
  - 9.10.3 Mentor Graphics Market Performance (2017-2022)
  - 9.10.4 Recent Development
  - 9.10.5 SWOT Analysis
- 9.11 Dassault Systemes
- 9.11.1 Dassault Systemes Basic Information, Manufacturing Base, Sales Region and Competitors
- 9.11.2 FEA & CFD Simulation and Analysis Softwares Product Profiles, Application and Specification
  - 9.11.3 Dassault Systemes Market Performance (2017-2022)
  - 9.11.4 Recent Development



- 9.11.5 SWOT Analysis
- 9.12 Exa
  - 9.12.1 Exa Basic Information, Manufacturing Base, Sales Region and Competitors
- 9.12.2 FEA & CFD Simulation and Analysis Softwares Product Profiles, Application and Specification
  - 9.12.3 Exa Market Performance (2017-2022)
  - 9.12.4 Recent Development
  - 9.12.5 SWOT Analysis
- 9.13 NEi Software
- 9.13.1 NEi Software Basic Information, Manufacturing Base, Sales Region and Competitors
- 9.13.2 FEA & CFD Simulation and Analysis Softwares Product Profiles, Application and Specification
  - 9.13.3 NEi Software Market Performance (2017-2022)
  - 9.13.4 Recent Development
  - 9.13.5 SWOT Analysis
- 9.14 ESI Group
- 9.14.1 ESI Group Basic Information, Manufacturing Base, Sales Region and Competitors
- 9.14.2 FEA & CFD Simulation and Analysis Softwares Product Profiles, Application and Specification
  - 9.14.3 ESI Group Market Performance (2017-2022)
  - 9.14.4 Recent Development
- 9.14.5 SWOT Analysis

### 10 RESEARCH FINDINGS AND CONCLUSION

### 11 APPENDIX

- 11.1 Methodology
- 11.2 Research Data Source



### **List Of Tables**

#### LIST OF TABLES AND FIGURES

Figure FEA & CFD Simulation and Analysis Softwares Product Picture

Table Global FEA & CFD Simulation and Analysis Softwares Market Sales Volume and CAGR (%) Comparison by Type

Table FEA & CFD Simulation and Analysis Softwares Market Consumption (Sales Volume) Comparison by Application (2017-2027)

Figure Global FEA & CFD Simulation and Analysis Softwares Market Size (Revenue, Million USD) and CAGR (%) (2017-2027)

Figure United States FEA & CFD Simulation and Analysis Softwares Market Revenue (Million USD) and Growth Rate (2017-2027)

Figure Europe FEA & CFD Simulation and Analysis Softwares Market Revenue (Million USD) and Growth Rate (2017-2027)

Figure China FEA & CFD Simulation and Analysis Softwares Market Revenue (Million USD) and Growth Rate (2017-2027)

Figure Japan FEA & CFD Simulation and Analysis Softwares Market Revenue (Million USD) and Growth Rate (2017-2027)

Figure India FEA & CFD Simulation and Analysis Softwares Market Revenue (Million USD) and Growth Rate (2017-2027)

Figure Southeast Asia FEA & CFD Simulation and Analysis Softwares Market Revenue (Million USD) and Growth Rate (2017-2027)

Figure Latin America FEA & CFD Simulation and Analysis Softwares Market Revenue (Million USD) and Growth Rate (2017-2027)

Figure Middle East and Africa FEA & CFD Simulation and Analysis Softwares Market Revenue (Million USD) and Growth Rate (2017-2027)

Figure Global FEA & CFD Simulation and Analysis Softwares Market Sales Volume Status and Outlook (2017-2027)

Table Global Macroeconomic Analysis

Figure Global COVID-19 Status Overview

Table Influence of COVID-19 Outbreak on FEA & CFD Simulation and Analysis Softwares Industry Development

Table Global FEA & CFD Simulation and Analysis Softwares Sales Volume by Player (2017-2022)

Table Global FEA & CFD Simulation and Analysis Softwares Sales Volume Share by Player (2017-2022)

Figure Global FEA & CFD Simulation and Analysis Softwares Sales Volume Share by Player in 2021



Table FEA & CFD Simulation and Analysis Softwares Revenue (Million USD) by Player (2017-2022)

Table FEA & CFD Simulation and Analysis Softwares Revenue Market Share by Player (2017-2022)

Table FEA & CFD Simulation and Analysis Softwares Price by Player (2017-2022)

Table FEA & CFD Simulation and Analysis Softwares Gross Margin by Player (2017-2022)

Table Mergers & Acquisitions, Expansion Plans

Table Global FEA & CFD Simulation and Analysis Softwares Sales Volume, Region Wise (2017-2022)

Table Global FEA & CFD Simulation and Analysis Softwares Sales Volume Market Share, Region Wise (2017-2022)

Figure Global FEA & CFD Simulation and Analysis Softwares Sales Volume Market Share, Region Wise (2017-2022)

Figure Global FEA & CFD Simulation and Analysis Softwares Sales Volume Market Share, Region Wise in 2021

Table Global FEA & CFD Simulation and Analysis Softwares Revenue (Million USD), Region Wise (2017-2022)

Table Global FEA & CFD Simulation and Analysis Softwares Revenue Market Share, Region Wise (2017-2022)

Figure Global FEA & CFD Simulation and Analysis Softwares Revenue Market Share, Region Wise (2017-2022)

Figure Global FEA & CFD Simulation and Analysis Softwares Revenue Market Share, Region Wise in 2021

Table Global FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue (Million USD), Price and Gross Margin (2017-2022)

Table United States FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue (Million USD), Price and Gross Margin (2017-2022)

Table Europe FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue (Million USD), Price and Gross Margin (2017-2022)

Table China FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue (Million USD), Price and Gross Margin (2017-2022)

Table Japan FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue (Million USD), Price and Gross Margin (2017-2022)

Table India FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue (Million USD), Price and Gross Margin (2017-2022)

Table Southeast Asia FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue (Million USD), Price and Gross Margin (2017-2022)

Table Latin America FEA & CFD Simulation and Analysis Softwares Sales Volume,



Revenue (Million USD), Price and Gross Margin (2017-2022)

Table Middle East and Africa FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue (Million USD), Price and Gross Margin (2017-2022)

Table Global FEA & CFD Simulation and Analysis Softwares Sales Volume by Type (2017-2022)

Table Global FEA & CFD Simulation and Analysis Softwares Sales Volume Market Share by Type (2017-2022)

Figure Global FEA & CFD Simulation and Analysis Softwares Sales Volume Market Share by Type in 2021

Table Global FEA & CFD Simulation and Analysis Softwares Revenue (Million USD) by Type (2017-2022)

Table Global FEA & CFD Simulation and Analysis Softwares Revenue Market Share by Type (2017-2022)

Figure Global FEA & CFD Simulation and Analysis Softwares Revenue Market Share by Type in 2021

Table FEA & CFD Simulation and Analysis Softwares Price by Type (2017-2022)

Figure Global FEA & CFD Simulation and Analysis Softwares Sales Volume and Growth Rate of FEA (2017-2022)

Figure Global FEA & CFD Simulation and Analysis Softwares Revenue (Million USD) and Growth Rate of FEA (2017-2022)

Figure Global FEA & CFD Simulation and Analysis Softwares Sales Volume and Growth Rate of CFD (2017-2022)

Figure Global FEA & CFD Simulation and Analysis Softwares Revenue (Million USD) and Growth Rate of CFD (2017-2022)

Table Global FEA & CFD Simulation and Analysis Softwares Consumption by Application (2017-2022)

Table Global FEA & CFD Simulation and Analysis Softwares Consumption Market Share by Application (2017-2022)

Table Global FEA & CFD Simulation and Analysis Softwares Consumption Revenue (Million USD) by Application (2017-2022)

Table Global FEA & CFD Simulation and Analysis Softwares Consumption Revenue Market Share by Application (2017-2022)

Table Global FEA & CFD Simulation and Analysis Softwares Consumption and Growth Rate of Automotive industry (2017-2022)

Table Global FEA & CFD Simulation and Analysis Softwares Consumption and Growth Rate of Aerospace and defense industry (2017-2022)

Table Global FEA & CFD Simulation and Analysis Softwares Consumption and Growth Rate of Electrical & electronics industry (2017-2022)

Table Global FEA & CFD Simulation and Analysis Softwares Consumption and Growth



Rate of Industrial machinery industry (2017-2022)

Table Global FEA & CFD Simulation and Analysis Softwares Consumption and Growth Rate of Remote Control Hobby Car Industry (2017-2022)

Table Global FEA & CFD Simulation and Analysis Softwares Consumption and Growth Rate of High End RC cars (2017-2022)

Table Global FEA & CFD Simulation and Analysis Softwares Consumption and Growth Rate of Others (2017-2022)

Figure Global FEA & CFD Simulation and Analysis Softwares Sales Volume and Growth Rate Forecast (2022-2027)

Figure Global FEA & CFD Simulation and Analysis Softwares Revenue (Million USD) and Growth Rate Forecast (2022-2027)

Figure Global FEA & CFD Simulation and Analysis Softwares Price and Trend Forecast (2022-2027)

Figure USA FEA & CFD Simulation and Analysis Softwares Market Sales Volume and Growth Rate Forecast Analysis (2022-2027)

Figure USA FEA & CFD Simulation and Analysis Softwares Market Revenue (Million USD) and Growth Rate Forecast Analysis (2022-2027)

Figure Europe FEA & CFD Simulation and Analysis Softwares Market Sales Volume and Growth Rate Forecast Analysis (2022-2027)

Figure Europe FEA & CFD Simulation and Analysis Softwares Market Revenue (Million USD) and Growth Rate Forecast Analysis (2022-2027)

Figure China FEA & CFD Simulation and Analysis Softwares Market Sales Volume and Growth Rate Forecast Analysis (2022-2027)

Figure China FEA & CFD Simulation and Analysis Softwares Market Revenue (Million USD) and Growth Rate Forecast Analysis (2022-2027)

Figure Japan FEA & CFD Simulation and Analysis Softwares Market Sales Volume and Growth Rate Forecast Analysis (2022-2027)

Figure Japan FEA & CFD Simulation and Analysis Softwares Market Revenue (Million USD) and Growth Rate Forecast Analysis (2022-2027)

Figure India FEA & CFD Simulation and Analysis Softwares Market Sales Volume and Growth Rate Forecast Analysis (2022-2027)

Figure India FEA & CFD Simulation and Analysis Softwares Market Revenue (Million USD) and Growth Rate Forecast Analysis (2022-2027)

Figure Southeast Asia FEA & CFD Simulation and Analysis Softwares Market Sales Volume and Growth Rate Forecast Analysis (2022-2027)

Figure Southeast Asia FEA & CFD Simulation and Analysis Softwares Market Revenue (Million USD) and Growth Rate Forecast Analysis (2022-2027)

Figure Latin America FEA & CFD Simulation and Analysis Softwares Market Sales Volume and Growth Rate Forecast Analysis (2022-2027)



Figure Latin America FEA & CFD Simulation and Analysis Softwares Market Revenue (Million USD) and Growth Rate Forecast Analysis (2022-2027)

Figure Middle East and Africa FEA & CFD Simulation and Analysis Softwares Market Sales Volume and Growth Rate Forecast Analysis (2022-2027)

Figure Middle East and Africa FEA & CFD Simulation and Analysis Softwares Market Revenue (Million USD) and Growth Rate Forecast Analysis (2022-2027)

Table Global FEA & CFD Simulation and Analysis Softwares Market Sales Volume Forecast, by Type

Table Global FEA & CFD Simulation and Analysis Softwares Sales Volume Market Share Forecast, by Type

Table Global FEA & CFD Simulation and Analysis Softwares Market Revenue (Million USD) Forecast, by Type

Table Global FEA & CFD Simulation and Analysis Softwares Revenue Market Share Forecast, by Type

Table Global FEA & CFD Simulation and Analysis Softwares Price Forecast, by Type Figure Global FEA & CFD Simulation and Analysis Softwares Revenue (Million USD) and Growth Rate of FEA (2022-2027)

Figure Global FEA & CFD Simulation and Analysis Softwares Revenue (Million USD) and Growth Rate of FEA (2022-2027)

Figure Global FEA & CFD Simulation and Analysis Softwares Revenue (Million USD) and Growth Rate of CFD (2022-2027)

Figure Global FEA & CFD Simulation and Analysis Softwares Revenue (Million USD) and Growth Rate of CFD (2022-2027)

Table Global FEA & CFD Simulation and Analysis Softwares Market Consumption Forecast, by Application

Table Global FEA & CFD Simulation and Analysis Softwares Consumption Market Share Forecast, by Application

Table Global FEA & CFD Simulation and Analysis Softwares Market Revenue (Million USD) Forecast, by Application

Table Global FEA & CFD Simulation and Analysis Softwares Revenue Market Share Forecast, by Application

Figure Global FEA & CFD Simulation and Analysis Softwares Consumption Value (Million USD) and Growth Rate of Automotive industry (2022-2027)

Figure Global FEA & CFD Simulation and Analysis Softwares Consumption Value (Million USD) and Growth Rate of Aerospace and defense industry (2022-2027)

Figure Global FEA & CFD Simulation and Analysis Softwares Consumption Value (Million USD) and Growth Rate of Electrical & electronics industry (2022-2027)

Figure Global FEA & CFD Simulation and Analysis Softwares Consumption Value (Million USD) and Growth Rate of Industrial machinery industry (2022-2027)



Figure Global FEA & CFD Simulation and Analysis Softwares Consumption Value (Million USD) and Growth Rate of Remote Control Hobby Car Industry (2022-2027) Figure Global FEA & CFD Simulation and Analysis Softwares Consumption Value (Million USD) and Growth Rate of High End RC cars (2022-2027)

Figure Global FEA & CFD Simulation and Analysis Softwares Consumption Value (Million USD) and Growth Rate of Others (2022-2027)

Figure FEA & CFD Simulation and Analysis Softwares Industrial Chain Analysis Table Key Raw Materials Suppliers and Price Analysis

Figure Manufacturing Cost Structure Analysis

**Table Alternative Product Analysis** 

Table Downstream Distributors

**Table Downstream Buyers** 

Table MSC Software Profile

Table MSC Software FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue (Million USD), Price and Gross Margin (2017-2022)

Figure MSC Software FEA & CFD Simulation and Analysis Softwares Sales Volume and Growth Rate

Figure MSC Software Revenue (Million USD) Market Share 2017-2022

Table CD-adapco Profile

Table CD-adapco FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue (Million USD), Price and Gross Margin (2017-2022)

Figure CD-adapco FEA & CFD Simulation and Analysis Softwares Sales Volume and Growth Rate

Figure CD-adapco Revenue (Million USD) Market Share 2017-2022

Table Altair Engineering Profile

Table Altair Engineering FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue (Million USD), Price and Gross Margin (2017-2022)

Figure Altair Engineering FEA & CFD Simulation and Analysis Softwares Sales Volume and Growth Rate

Figure Altair Engineering Revenue (Million USD) Market Share 2017-2022

Table Flow Science Profile

Table Flow Science FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue (Million USD), Price and Gross Margin (2017-2022)

Figure Flow Science FEA & CFD Simulation and Analysis Softwares Sales Volume and Growth Rate

Figure Flow Science Revenue (Million USD) Market Share 2017-2022

Table Ansys Profile

Table Ansys FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue (Million USD), Price and Gross Margin (2017-2022)



Figure Ansys FEA & CFD Simulation and Analysis Softwares Sales Volume and Growth Rate

Figure Ansys Revenue (Million USD) Market Share 2017-2022

Table AspenTech Profile

Table AspenTech FEA & CFD Simulation and Analysis Softwares Sales Volume,

Revenue (Million USD), Price and Gross Margin (2017-2022)

Figure AspenTech FEA & CFD Simulation and Analysis Softwares Sales Volume and Growth Rate

Figure AspenTech Revenue (Million USD) Market Share 2017-2022

Table Numeca International Profile

Table Numeca International FEA & CFD Simulation and Analysis Softwares Sales

Volume, Revenue (Million USD), Price and Gross Margin (2017-2022)

Figure Numeca International FEA & CFD Simulation and Analysis Softwares Sales Volume and Growth Rate

Figure Numeca International Revenue (Million USD) Market Share 2017-2022

Table Computational Engineering International Profile

Table Computational Engineering International FEA & CFD Simulation and Analysis

Softwares Sales Volume, Revenue (Million USD), Price and Gross Margin (2017-2022)

Figure Computational Engineering International FEA & CFD Simulation and Analysis Softwares Sales Volume and Growth Rate

Figure Computational Engineering International Revenue (Million USD) Market Share 2017-2022

Table Autodesk Profile

Table Autodesk FEA & CFD Simulation and Analysis Softwares Sales Volume,

Revenue (Million USD), Price and Gross Margin (2017-2022)

Figure Autodesk FEA & CFD Simulation and Analysis Softwares Sales Volume and Growth Rate

Figure Autodesk Revenue (Million USD) Market Share 2017-2022

**Table Mentor Graphics Profile** 

Table Mentor Graphics FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue (Million USD), Price and Gross Margin (2017-2022)

Figure Mentor Graphics FEA & CFD Simulation and Analysis Softwares Sales Volume and Growth Rate

Figure Mentor Graphics Revenue (Million USD) Market Share 2017-2022

Table Dassault Systemes Profile

Table Dassault Systemes FEA & CFD Simulation and Analysis Softwares Sales

Volume, Revenue (Million USD), Price and Gross Margin (2017-2022)

Figure Dassault Systemes FEA & CFD Simulation and Analysis Softwares Sales Volume and Growth Rate



Figure Dassault Systemes Revenue (Million USD) Market Share 2017-2022 Table Exa Profile

Table Exa FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue (Million USD), Price and Gross Margin (2017-2022)

Figure Exa FEA & CFD Simulation and Analysis Softwares Sales Volume and Growth Rate

Figure Exa Revenue (Million USD) Market Share 2017-2022

Table NEi Software Profile

Table NEi Software FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue (Million USD), Price and Gross Margin (2017-2022)

Figure NEi Software FEA & CFD Simulation and Analysis Softwares Sales Volume and Growth Rate

Figure NEi Software Revenue (Million USD) Market Share 2017-2022

Table ESI Group Profile

Table ESI Group FEA & CFD Simulation and Analysis Softwares Sales Volume, Revenue (Million USD), Price and Gross Margin (2017-2022)

Figure ESI Group FEA & CFD Simulation and Analysis Softwares Sales Volume and Growth Rate

Figure ESI Group Revenue (Million USD) Market Share 2017-2022



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