

Global Thermal Fluid Simulation Software Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Thermal Fluid Simulation Software market size is expected to reach \$ 3365.4 million by 2029, rising at a market growth of 7.5% CAGR during the forecast period (2023-2029).

The Thermal Fluid Simulation Software market has experienced rapid growth over the past few years due to several reasons, including:

1. **Cloud computing adoption:** More companies are shifting toward cloud-based solutions due to scalability, convenience, and accessibility advantages. Vendors are developing web-enabled platforms that leverage the power of remote servers, enabling collaboration across geographically dispersed teams, and providing subscription-based pricing models.
2. **Expansion of industrial internet of things (IIoT) and digital twins:** A rise in IIoT connectivity means an increasing number of assets and operations can be monitored and optimized using virtual replicas known as 'digital twins.' Leading vendors are integrating this concept directly into their simulation workflows, permitting real-time monitoring and closed-loop controls.
3. **Artificial intelligence and machine learning integration:** Machine learning algorithms are being applied to accelerate design exploration, generate better initial guesses for simulations, and even create custom physics-based correlations without explicit knowledge of microscopic details. Some providers focus on AI augmentation of human expertise via data analytics, pattern recognition, and recommendation systems.
4. **Improved ease of use and user experience:** An emphasis on usability makes these programs accessible to non-experts, enabling them to perform routine tasks and collaborate effectively with domain experts. Advanced visualization techniques like 3D animations and virtual reality views facilitate comprehension and communication.
5. **Expansion into adjacent domains:** Major players in the field are leveraging their core competencies to venture into related areas like turbomachinery aerodynamics, battery

management, and fuel cell simulations. By broadening their portfolios, they aim to capture additional revenue streams and attract customers seeking integrated suites tailored to specific industries.

6. Competition with open source alternatives: Free or low-cost open-source packages have gained ground over time.

Thermal fluid simulation software helps engineers analyze and optimize complex thermofluid systems by simulating their behavior under different operating conditions.

These tools allow users to model and predict system performance based on mathematical models, computational algorithms, and numerical calculations.

This report studies the global Thermal Fluid Simulation Software demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thermal Fluid Simulation Software, 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 Thermal Fluid Simulation Software that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thermal Fluid Simulation Software total market, 2018-2029, (USD Million)

Global Thermal Fluid Simulation Software total market by region & country, CAGR, 2018-2029, (USD Million)

U.S. VS China: Thermal Fluid Simulation Software total market, key domestic companies and share, (USD Million)

Global Thermal Fluid Simulation Software revenue by player and market share 2018-2023, (USD Million)

Global Thermal Fluid Simulation Software total market by Type, CAGR, 2018-2029, (USD Million)

Global Thermal Fluid Simulation Software total market by Application, CAGR, 2018-2029, (USD Million).

This reports profiles major players in the global Thermal Fluid Simulation Software 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 ANSYS, Siemens, Mentor Graphics, EXA, Dassault Systèmes, COMSOL, Altair Engineering, Autodesk and NUMECA International, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence. Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Thermal Fluid Simulation Software 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 Thermal Fluid Simulation Software Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thermal Fluid Simulation Software Market, Segmentation by Type

On Premise

Cloud-based

Global Thermal Fluid Simulation Software Market, Segmentation by Application

Aerospace and Defense

Automotive

Electrical and Electronics

Others

Companies Profiled:

ANSYS

Siemens

Mentor Graphics

EXA

Dassault Syst?mes

COMSOL

Altair Engineering

Autodesk

NUMECA International

Convergent Science

Dassault Systemes

Hexagon AB

ESI

PTC

BETA CAE Systems

Magma

CoreTech System

Key Questions Answered

1. How big is the global Thermal Fluid Simulation Software market?
2. What is the demand of the global Thermal Fluid Simulation Software market?
3. What is the year over year growth of the global Thermal Fluid Simulation Software market?
4. What is the total value of the global Thermal Fluid Simulation Software market?
5. Who are the major players in the global Thermal Fluid Simulation Software market?
6. What are the growth factors driving the market demand?

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