Description:


This report studies the simulation software market in the global composites industry over the period 2017 to 2022. The report provides detailed insights into the market dynamics to enable informed business decision making and growth strategy formulation based on the opportunities in the market.

The Global Simulation Software Market in the Composites Industry: Highlights

The global composite simulation software market was valued at US$ 43.6 million in 2016 and is projected to grow at an impressive CAGR of 8.5% over the next five years and reach US$ 71.4 million in 2022. Organic growth of composites industry, high demand for automation and faster production process, and increasing demand for simulation software from design to production are the major growth drivers of the market.

Composite materials are far more complex and variable than metals due to the presence of many raw materials, intermediates, and manufacturing processes. It is not easy to produce a final part by developing a right combination of different materials and processes at the first time. Also, there is a big push on the manufacturing side to streamline automation and produce high-quality composite parts faster. Machine throughput is extremely critical to maintain the growth momentum of composites in the mass volume industries like transportation. Simulation software helps composite stakeholders in the designing, development, and production of composite parts more efficiently. It stimulates digitally and minimizes the risk of the expensive proposition of producing the physical parts. Over the past few years, there's been a big push to add or expand composite-focused simulation tools to existing software suites.

Aerospace and defense industry is expected to remain the largest market for simulation software in the composites industry. Composites are gaining ground on major next generation aircraft, such as B787, A350XWB, and C Series. All major aerospace and defense OEMs are searching out the possibility of using composites in most of the structural applications of their upcoming aircraft. This is driving the demand for an efficient simulation software to minimize the risk of expensive product development.

Transportation is expected to experience the fastest growth in simulation software demand for composites over the next five years. Increasing use of composites in the structural applications of electric vehicles and premium vehicles are driving the demand for simulation software. All major simulation software providers for composites industry are heavily targeting the transportation industry to tap the growing market potential.

There are broadly three types of simulation software used in the composites industry: Computer Aided Design (CAD), Computer Aided Engineering (CAE), and Computer Aided Manufacturing (CAM). CAD software is the most used simulation software in the global composites industry and is expected to remain largest during the forecast period as well.

North America is expected to remain the largest market for composite simulation software over the next five years. The region is the world's capital in terms of aerospace composites manufacturing with the presence of several aerospace OEMs and tier players. However, Asia-Pacific is likely to experience the fastest growth in the demand for composite simulation software because of high growth of composites and a gradual shift of composites manufacturing from North America and Europe to the Asia-Pacific region.

The supply chain of this market comprises software developers, designers, part molders, distributors, OEMs, and end users. The global composite simulation software market is a highly consolidated with about a dozen players populated worldwide. The key composite simulation software providers are Siemens AG, Autodesk Inc, Dassault Systemes, and Altair Engineering. New product development and merger & acquisitions are the key strategies adopted by the key players to gain a competitive edge in the market.
Report Features

This report provides market intelligence in the most comprehensive way. The report structure has been kept such that it offers maximum business value. It provides critical insights into the market dynamics and will enable strategic decision making for the existing market players as well as those willing to enter the market.

The following are the key features of the report:

- Market structure: Overview, industry life cycle analysis, supply chain analysis
- Market environment analysis: Growth drivers and constraints, Porter’s five forces analysis, SWOT analysis
- Market trend and forecast analysis
- Market segment trend and forecast
- Competitive landscape and dynamics: Market share, product portfolio, product launches, etc.
- Attractive market segments and associated growth opportunities
- Emerging trends of the carbon brakes market
- Strategic growth opportunities for the existing and new players
- Key success factors
- The simulation software market in the composites industry is segmented into the following categories.

Global Composite Simulation Software Market by Software Type:

- Computer Aided Design (Regional Analysis: North America, Europe, Asia-Pacific, and Rest of the World)
- Computer Aided Engineering (Regional Analysis: North America, Europe, Asia-Pacific, and Rest of the World)
- Computer Aided Manufacturing (Regional Analysis: North America, Europe, Asia-Pacific, and Rest of the World)

Global Composite Simulation Software Market by Composites End-Use Industry Type:

- Aerospace & Defense (Regional Analysis: North America, Europe, Asia-Pacific, and Rest of the World)
- Transportation (Regional Analysis: North America, Europe, Asia-Pacific, and Rest of the World)
- Wind Energy (Regional Analysis: North America, Europe, Asia-Pacific, and Rest of the World)
- Building & Construction (Regional Analysis: North America, Europe, Asia-Pacific, and Rest of the World)
- Marine (Regional Analysis: North America, Europe, Asia-Pacific, and Rest of the World)
- Others (Regional Analysis: North America, Europe, Asia-Pacific, and Rest of the World)

Global Composite Simulation Software Market by Region:

- North America (Country Analysis: US, Canada, and Mexico)
- Europe (Country Analysis: Germany, France, United Kingdom, Russia, and Rest of the Europe)
- Asia-Pacific (Country Analysis: China, Japan, India, and Rest of the Asia-Pacific)
- Rest of the World (Country Analysis: Latin America, Middle East, and Others)

Report Customization Options

With this detailed report, Stratview Research offers one of the following free customization options to our respectable clients:

Company Profiling

- Detailed profiling of additional market players (up to 3)
- SWOT analysis of key players (up to 3)
- Market Segmentation

Current market segmentation of any one of the software type by end-use industry

- Competitive Benchmarking

Benchmarking of key players on the following parameters: Product portfolio, geographical reach, regional presence, and strategic alliances

Custom Research: Custom research services are offered across the sectors.

Contents: 1. Executive Summary
2. Composite Simulation Software Overview and Market Forces
   2.1. Introduction
   2.2. Market Classification
      2.2.1. By Software Type
      2.2.2. By End-Use Industry Type
      2.2.3. By Region
   2.3. Market Drivers
   2.4. Market Constraints
   2.5. Supply Chain Analysis
   2.6. Industry Life Cycle Analysis
   2.7. PEST Analysis: Impact Assessment of Changing Business Environment
   2.8. Porter Five Forces Analysis
      2.8.1. Bargaining Power of Suppliers
      2.8.2. Bargaining Power of Customers
      2.8.3. Threat of New Entrants
      2.8.4. Threat of Substitutes
      2.8.5. Competitive Rivalry
   2.9. SWOT Analysis

3. Global Composite Simulation Software Market - By Software Type
   3.1. Strategic Insights
      3.2.1. Regional Trend and Forecast (US$ Million)
   3.3. Computer Aided Engineering (CAE) Market Trend and Forecast in Composites Industry (US$ Million)
      3.3.1. Regional Trend and Forecast (US$ Million)
      3.4.1. Regional Trend and Forecast (US$ Million)

4. Global Composite Simulation Software Market - By End-Use Industry Type
   4.1. Strategic Insights
      4.2.1. Regional Trend and Forecast (US$ Million)
   4.3. Transportation: Composite Simulation Software Market Trend and Forecast (US$ Million)
      4.3.1. Regional Trend and Forecast (US$ Million)
      4.4.1. Regional Trend and Forecast (US$ Million)
   4.5. Building & Construction: Composite Simulation Software Market Trend and Forecast (US$ Million)
      4.5.1. Regional Trend and Forecast (US$ Million)
      4.6.1. Regional Trend and Forecast (US$ Million)
   4.7. Others: Composite Simulation Software Market Trend and Forecast (US$ Million)
      4.7.1. Regional Trend and Forecast (US$ Million)

5. Global Composite Simulation Software Market - By Region
   5.1. Strategic Insights
   5.2. North America's Composite Simulation Software Market Analysis
      5.2.1. Country Analysis
      5.2.1.1. USA: Composite Simulation Software Market Trend and Forecast (US$ Million)
      5.2.1.2. Canada: Composite Simulation Software Market Trend and Forecast (US$ Million)
      5.2.1.3. Mexico: Composite Simulation Software Market Trend and Forecast (US$ Million)
      5.2.2. Software Type Analysis
      5.2.2.1. North America's Composite Simulation Software Market Trend and Forecast by Software Type (US$ Million)
      5.2.3. End-Use Industry Type Analysis
      5.2.3.1. North America's Composite Simulation Software Market Trend and Forecast by End-Use Industry (US$ Million)
   5.3. Europe's Composite Simulation Software Market Analysis
      5.3.1. Country Analysis
      5.3.1.1. Germany: Composite Simulation Software Market Trend and Forecast (US$ Million)
      5.3.1.2. France: Composite Simulation Software Market Trend and Forecast (US$ Million)
      5.3.1.3. United Kingdom: Composite Simulation Software Market Trend and Forecast (US$ Million)
      5.3.1.4. Russia: Composite Simulation Software Market Trend and Forecast (US$ Million)
5.3.1.5. Rest of the Europe: Composite Simulation Software Market Trend and Forecast (US$ Million)
5.3.2. Software Type Analysis
5.3.2.1. Europe's Composite Simulation Software Market Trend and Forecast by Software Type (US$ Million)
5.3.3. End-Use Industry Type Analysis
5.3.3.1. Europe's Composite Simulation Software Market Trend and Forecast by End-Use Industry (US$ Million)
5.4. Asia-Pacific's Composite Simulation Software Market Analysis
5.4.1. Country Analysis
5.4.1.1. China: Composite Simulation Software Market Trend and Forecast (US$ Million)
5.4.1.2. Japan: Composite Simulation Software Market Trend and Forecast (US$ Million)
5.4.1.3. India: Composite Simulation Software Market Trend and Forecast (US$ Million)
5.4.1.4. Rest of the Asia-Pacific: Composite Simulation Software Market Trend and Forecast (US$ Million)
5.4.2. Software Type Analysis
5.4.2.1. Asia-Pacific's Composite Simulation Software Market Trend and Forecast by Software Type (US$ Million)
5.4.3. End-Use Industry Type Analysis
5.4.3.1. Asia-Pacific's Composite Simulation Software Market Trend and Forecast, by End-Use Industry (US$ Million)
5.5. Rest of the World's (RoW) Composite Simulation Software Market Analysis
5.5.1. Country Analysis
5.5.1.1. Latin America: Composite Simulation Software Market Trend and Forecast (US$ Million)
5.5.1.2. Middle East: Composite Simulation Software Market Trend and Forecast (US$ Million)
5.5.1.3. Others: Composite Simulation Software Market Trend and Forecast (US$ Million)
5.5.2. Software Type Analysis
5.5.2.1. RoW's Composite Simulation Software Market Trend and Forecast by Software Type (US$ Million)
5.5.3. End-Use Industry Type Analysis
5.5.3.1. RoW's Composite Simulation Software Market Trend and Forecast, by End-Use Industry (US$ Million)

6. Competitive Analysis
6.1. Strategic Insights
6.2. Product Portfolio Analysis
6.3. Presence by End-Use Industry Type
6.4. New Product Launches
6.5. Mergers and Acquisitions
6.6. Market Share Analysis

7. Strategic Growth Opportunities
7.1. Strategic Insights
7.2. Market Attractive Analysis
7.2.1. Market Attractiveness by Software Type
7.2.2. Market Attractiveness by End-Use Industry Type
7.2.3. Market Attractiveness by Region
7.2.4. Market Attractiveness by Country
7.3. Emerging Trends
7.4. Key Success Factors
7.5. Growth Matrix Analysis

8. Company Profile of Key Players
8.1. Altair Engineering, Inc
8.2. Autodesk, Inc.
8.3. CGTech
8.4. Dassault Systemes
8.5. ESI Group
8.6. e-Xstream engineering
8.7. HyperSizer
8.8. Siemens AG

Ordering:
Order Online - http://www.researchandmarkets.com/reports/4206795/
Order by Fax - using the form below
Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

- **Product Name:** Global Composite Simulation Software Market - 2017 to 2022
- **Web Address:** http://www.researchandmarkets.com/reports/4206795/
- **Office Code:** SC

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Electronic (PDF) - Single User:</th>
<th>USD 4290</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Electronic (PDF) - Enterprisewide:</td>
<td>USD 7590</td>
</tr>
</tbody>
</table>

* The price quoted above is only valid for 30 days. Please submit your order within that time frame to avail of this price as all prices are subject to change.

Contact Information
Please enter all the information below in BLOCK CAPITALS

- **Title:** Mr [ ] Mrs [ ] Dr [ ] Miss [ ] Ms [ ] Prof [ ]
- **First Name:** ____________________________
- **Last Name:** ____________________________
- **Email Address:** * ____________________________
- **Job Title:** ____________________________
- **Organisation:** ____________________________
- **Address:** ____________________________
- **City:** ____________________________
- **Postal / Zip Code:** ____________________________
- **Country:** ____________________________
- **Phone Number:** ____________________________
- **Fax Number:** ____________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:

Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:

<table>
<thead>
<tr>
<th>Account number</th>
<th>833 130 83</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sort code</td>
<td>98-53-30</td>
</tr>
<tr>
<td>Swift code</td>
<td>ULSBIE2D</td>
</tr>
<tr>
<td>IBAN number</td>
<td>IE78ULSB9853083313083</td>
</tr>
<tr>
<td>Bank Address</td>
<td>Ulster Bank, 27-35 Main Street, Blackrock, Co. Dublin, Ireland.</td>
</tr>
</tbody>
</table>

If you have a Marketing Code please enter it below:

Marketing Code: ____________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:

(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World