

Global AFP/ATL Machines Market Size study, by Machine Type (AFP Machines, ATL Machines, Hybrid AFP/ATL Machines), by Application (OEMs, Third-Party Vendors), by End-user (Automotive, Aviation, Oil & Gas, Space, Wind & Energy) and Regional Forecasts 2022-2032

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Abstracts

Global AFP/ATL Machines Market is valued at approximately USD 292.21 million in 2023 and is anticipated to grow with a healthy growth rate of more than 7.62% over the forecast period 2024-2032. Automated fiber placement (AFP) and automated tape laying (ATL) machines are advanced manufacturing systems used primarily in the aerospace, automotive, and other high-performance sectors for the production of composite materials. These computer-controlled machines methodically place composite material, such as carbon fiber or fiberglass tapes and tows, onto a mold or mandrel to construct components that combine light weight with high strength. These innovative systems deliver heightened precision and repeatability in the layup process, outperforming traditional manual methods in efficiency and waste reduction. The market for AFP/ATL machines is fueled by the surging demand for high-performance composites, with a diverse portfolio covering machine sales, ongoing maintenance, software, and operational services.

Growth in this sector is propelled by factors such as advances in material science, environmental directives steering towards lightweight solutions, and cutting-edge technological enhancements. However, substantial initial costs, the requisite for specialized labor, material compatibility constraints, and susceptibility to global economic volatility hinder the scope of the market. Besides the challenges, vast opportunities arise in the expansion into new sectors, integration with smart

manufacturing paradigms, focus on customization for varying application scales, and enriched aftermarket services. Additionally, the potential scope of AI, R&D focused on modular machine designs, and advanced simulation tools present lucrative future opportunities for the AFP/ATL machines market growth.

The key regions considered for the global AFP/ATL machines market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America is accounted as the dominating region driven by advancing aerospace and defense sectors. Investments in modernizing manufacturing infrastructure and enhancing composite material production capabilities have further increased the demand for AFP/ATL machines in this region. Whereas, the Asia Pacific region is experiencing rapid growth with significant expansion fueled by the aerospace, automotive, and wind energy industries, particularly in countries such as China, Japan, South Korea, and India. Also, the region continues to advance in the composites field with sustained investments in the aerospace and automotive sectors, supported by regulatory frameworks promoting lightweight and fuel-efficient transportation options.

Major market players included in this report are:

Accudyne System, Inc.

Addcomposites Oy

AFPT GmbH

Associated Pacific Machine Corp.

Boikon B.V.

Broetje-Automation GmbH

Camozzi Group S.p.A.

Compositence GmbH

Conbility GmbH

CORIOLIS GROUP SAS

The detailed segments and sub-segment of the market are explained below:

By Machine Type:

AFP Machines

ATL Machines

Hybrid AFP/ATL Machines

By Application:

OEMs

Third-Party Vendors

By End-user:

Automotive

Aviation

Oil & Gas

Space

Wind & Energy

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

Contents

CHAPTER 1. GLOBAL AFP/ATL MACHINES MARKET EXECUTIVE SUMMARY

- 1.1. Global AFP/ATL Machines Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Machine Type
 - 1.3.2. By Application
 - 1.3.3. By End-user
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL AFP/ATL MACHINES MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL AFP/ATL MACHINES MARKET DYNAMICS

3.1. Market Drivers

- 3.1.1. Advances in material science
- 3.1.2. Environmental directives steering towards lightweight solutions
- 3.1.3. Cutting-edge technological enhancements

3.2. Market Challenges

- 3.2.1. Substantial initial costs
- 3.2.2. Requirement for specialized labor
- 3.2.3. Material compatibility constraints
- 3.2.4. Susceptibility to global economic volatility

3.3. Market Opportunities

- 3.3.1. Expansion into new sectors
- 3.3.2. Integration with smart manufacturing standards
- 3.3.3. Focus on customization for varying application scales
- 3.3.4. Augmented aftermarket services
- 3.3.5. Potential scope of AI and advanced simulation tools

CHAPTER 4. GLOBAL AFP/ATL MACHINES MARKET INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

4.2. PESTEL Analysis

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

4.3. Top investment opportunity

4.4. Top winning strategies

4.5. Disruptive Trends

4.6. Industry Expert Perspective

4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL AFP/ATL MACHINES MARKET SIZE & FORECASTS BY MACHINE TYPE 2022-2032

5.1. Segment Dashboard

5.2. Global AFP/ATL Machines Market: Machine Type Revenue Trend Analysis, 2022 & 2032 (USD Million)

5.2.1. AFP Machines

5.2.2. ATL Machines

5.2.3. Hybrid AFP/ATL Machines

CHAPTER 6. GLOBAL AFP/ATL MACHINES MARKET SIZE & FORECASTS BY APPLICATION 2022-2032

6.1. Segment Dashboard

6.2. Global AFP/ATL Machines Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Million)

6.2.1. OEMs

6.2.2. Third-Party Vendors

CHAPTER 7. GLOBAL AFP/ATL MACHINES MARKET SIZE & FORECASTS BY END-USER 2022-2032

7.1. Segment Dashboard

7.2. Global AFP/ATL Machines Market: End-user Revenue Trend Analysis, 2022 & 2032 (USD Million)

7.2.1. Automotive

7.2.2. Aviation

7.2.3. Oil & Gas

7.2.4. Space

7.2.5. Wind & Energy

CHAPTER 8. GLOBAL AFP/ATL MACHINES MARKET SIZE & FORECASTS BY REGION 2022-2032

8.1. North America AFP/ATL Machines Market

8.1.1. U.S. AFP/ATL Machines Market

8.1.1.1. Machine Type breakdown size & forecasts, 2022-2032

8.1.1.2. Application breakdown size & forecasts, 2022-2032

8.1.1.3. End-user breakdown size & forecasts, 2022-2032

- 8.1.2. Canada AFP/ATL Machines Market
 - 8.1.2.1. Machine Type breakdown size & forecasts, 2022-2032
 - 8.1.2.2. Application breakdown size & forecasts, 2022-2032
 - 8.1.2.3. End-user breakdown size & forecasts, 2022-2032
- 8.2. Europe AFP/ATL Machines Market
 - 8.2.1. UK AFP/ATL Machines Market
 - 8.2.1.1. Machine Type breakdown size & forecasts, 2022-2032
 - 8.2.1.2. Application breakdown size & forecasts, 2022-2032
 - 8.2.1.3. End-user breakdown size & forecasts, 2022-2032
 - 8.2.2. Germany AFP/ATL Machines Market
 - 8.2.2.1. Machine Type breakdown size & forecasts, 2022-2032
 - 8.2.2.2. Application breakdown size & forecasts, 2022-2032
 - 8.2.2.3. End-user breakdown size & forecasts, 2022-2032
 - 8.2.3. France AFP/ATL Machines Market
 - 8.2.3.1. Machine Type breakdown size & forecasts, 2022-2032
 - 8.2.3.2. Application breakdown size & forecasts, 2022-2032
 - 8.2.3.3. End-user breakdown size & forecasts, 2022-2032
 - 8.2.4. Spain AFP/ATL Machines Market
 - 8.2.4.1. Machine Type breakdown size & forecasts, 2022-2032
 - 8.2.4.2. Application breakdown size & forecasts, 2022-2032
 - 8.2.4.3. End-user breakdown size & forecasts, 2022-2032
 - 8.2.5. Italy AFP/ATL Machines Market
 - 8.2.5.1. Machine Type breakdown size & forecasts, 2022-2032
 - 8.2.5.2. Application breakdown size & forecasts, 2022-2032
 - 8.2.5.3. End-user breakdown size & forecasts, 2022-2032
 - 8.2.6. Rest of Europe AFP/ATL Machines Market
 - 8.2.6.1. Machine Type breakdown size & forecasts, 2022-2032
 - 8.2.6.2. Application breakdown size & forecasts, 2022-2032
 - 8.2.6.3. End-user breakdown size & forecasts, 2022-2032
- 8.3. Asia-Pacific AFP/ATL Machines Market
 - 8.3.1. China AFP/ATL Machines Market
 - 8.3.1.1. Machine Type breakdown size & forecasts, 2022-2032
 - 8.3.1.2. Application breakdown size & forecasts, 2022-2032
 - 8.3.1.3. End-user breakdown size & forecasts, 2022-2032
 - 8.3.2. India AFP/ATL Machines Market
 - 8.3.2.1. Machine Type breakdown size & forecasts, 2022-2032
 - 8.3.2.2. Application breakdown size & forecasts, 2022-2032
 - 8.3.2.3. End-user breakdown size & forecasts, 2022-2032
 - 8.3.3. Japan AFP/ATL Machines Market

- 8.3.3.1. Machine Type breakdown size & forecasts, 2022-2032
- 8.3.3.2. Application breakdown size & forecasts, 2022-2032
- 8.3.3.3. End-user breakdown size & forecasts, 2022-2032
- 8.3.4. Australia AFP/ATL Machines Market
 - 8.3.4.1. Machine Type breakdown size & forecasts, 2022-2032
 - 8.3.4.2. Application breakdown size & forecasts, 2022-2032
 - 8.3.4.3. End-user breakdown size & forecasts, 2022-2032
- 8.3.5. South Korea AFP/ATL Machines Market
 - 8.3.5.1. Machine Type breakdown size & forecasts, 2022-2032
 - 8.3.5.2. Application breakdown size & forecasts, 2022-2032
 - 8.3.5.3. End-user breakdown size & forecasts, 2022-2032
- 8.3.6. Rest of Asia-Pacific AFP/ATL Machines Market
 - 8.3.6.1. Machine Type breakdown size & forecasts, 2022-2032
 - 8.3.6.2. Application breakdown size & forecasts, 2022-2032
 - 8.3.6.3. End-user breakdown size & forecasts, 2022-2032
- 8.4. Latin America AFP/ATL Machines Market
 - 8.4.1. Brazil AFP/ATL Machines Market
 - 8.4.1.1. Machine Type breakdown size & forecasts, 2022-2032
 - 8.4.1.2. Application breakdown size & forecasts, 2022-2032
 - 8.4.1.3. End-user breakdown size & forecasts, 2022-2032
 - 8.4.2. Mexico AFP/ATL Machines Market
 - 8.4.2.1. Machine Type breakdown size & forecasts, 2022-2032
 - 8.4.2.2. Application breakdown size & forecasts, 2022-2032
 - 8.4.2.3. End-user breakdown size & forecasts, 2022-2032
 - 8.4.3. Rest of Latin America AFP/ATL Machines Market
 - 8.4.3.1. Machine Type breakdown size & forecasts, 2022-2032
 - 8.4.3.2. Application breakdown size & forecasts, 2022-2032
 - 8.4.3.3. End-user breakdown size & forecasts, 2022-2032
- 8.5. Middle East & Africa AFP/ATL Machines Market
 - 8.5.1. Saudi Arabia AFP/ATL Machines Market
 - 8.5.1.1. Machine Type breakdown size & forecasts, 2022-2032
 - 8.5.1.2. Application breakdown size & forecasts, 2022-2032
 - 8.5.1.3. End-user breakdown size & forecasts, 2022-2032
 - 8.5.2. South Africa AFP/ATL Machines Market
 - 8.5.2.1. Machine Type breakdown size & forecasts, 2022-2032
 - 8.5.2.2. Application breakdown size & forecasts, 2022-2032
 - 8.5.2.3. End-user breakdown size & forecasts, 2022-2032
 - 8.5.3. Rest of Middle East & Africa AFP/ATL Machines Market
 - 8.5.3.1. Machine Type breakdown size & forecasts, 2022-2032

8.5.3.2. Application breakdown size & forecasts, 2022-2032

8.5.3.3. End-user breakdown size & forecasts, 2022-2032

CHAPTER 9. COMPETITIVE INTELLIGENCE

9.1. Key Company SWOT Analysis

9.1.1. Company

9.1.2. Company

9.1.3. Company

9.2. Top Market Strategies

9.3. Company Profiles

9.3.1. Accudyne System, Inc.

9.3.1.1. Key Information

9.3.1.2. Overview

9.3.1.3. Financial (Subject to Data Availability)

9.3.1.4. Product Summary

9.3.1.5. Market Strategies

9.3.2. Addcomposites Oy

9.3.3. AFPT GmbH

9.3.4. Associated Pacific Machine Corp.

9.3.5. Boikon B.V.

9.3.6. Broetje-Automation GmbH

9.3.7. Camozzi Group S.p.A.

9.3.8. Compositence GmbH

9.3.9. Conbility GmbH

9.3.10. CORIOLIS GROUP SAS

CHAPTER 10. RESEARCH PROCESS

10.1. Research Process

10.1.1. Data Mining

10.1.2. Analysis

10.1.3. Market Estimation

10.1.4. Validation

10.1.5. Publishing

10.2. Research Attributes

List Of Tables

LIST OF TABLES

TABLE 1. Global AFP/ATL Machines market, report scope

TABLE 2. Global AFP/ATL Machines market estimates & forecasts by Region
2022-2032 (USD Million)

TABLE 3. Global AFP/ATL Machines market estimates & forecasts by Machine Type
2022-2032 (USD Million)

TABLE 4. Global AFP/ATL Machines market estimates & forecasts by Application
2022-2032 (USD Million)

TABLE 5. Global AFP/ATL Machines market estimates & forecasts by End-user
2022-2032 (USD Million)

TABLE 6. Global AFP/ATL Machines market by segment, estimates & forecasts,
2022-2032 (USD Million)

TABLE 7. Global AFP/ATL Machines market by region, estimates & forecasts,
2022-2032 (USD Million)

TABLE 8. Global AFP/ATL Machines market by segment, estimates & forecasts,
2022-2032 (USD Million)

TABLE 9. Global AFP/ATL Machines market by region, estimates & forecasts,
2022-2032 (USD Million)

TABLE 10. Global AFP/ATL Machines market by segment, estimates & forecasts,
2022-2032 (USD Million)

TABLE 11. Global AFP/ATL Machines market by region, estimates & forecasts,
2022-2032 (USD Million)

TABLE 12. Global AFP/ATL Machines market by segment, estimates & forecasts,
2022-2032 (USD Million)

TABLE 13. Global AFP/ATL Machines market by region, estimates & forecasts,
2022-2032 (USD Million)

TABLE 14. Global AFP/ATL Machines market by segment, estimates & forecasts,
2022-2032 (USD Million)

TABLE 15. U.S. AFP/ATL Machines market estimates & forecasts, 2022-2032 (USD
Million)

TABLE 16. U.S. AFP/ATL Machines market estimates & forecasts by segment
2022-2032 (USD Million)

TABLE 17. U.S. AFP/ATL Machines market estimates & forecasts by segment
2022-2032 (USD Million)

TABLE 18. Canada AFP/ATL Machines market estimates & forecasts, 2022-2032 (USD
Million)

TABLE 19. Canada AFP/ATL Machines market estimates & forecasts by segment
2022-2032 (USD Million)

TABLE 20. Canada AFP/ATL Machines market estimates & forecasts by segment
2022-2032 (USD Million)

...

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable.

List Of Figures

LIST OF FIGURES

- FIG 1. Global AFP/ATL Machines market, research methodology
- FIG 2. Global AFP/ATL Machines market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods
- FIG 4. Global AFP/ATL Machines market, key trends 2023
- FIG 5. Global AFP/ATL Machines market, growth prospects 2022-2032
- FIG 6. Global AFP/ATL Machines market, porters 5 force model
- FIG 7. Global AFP/ATL Machines market, PESTEL analysis
- FIG 8. Global AFP/ATL Machines market, value chain analysis
- FIG 9. Global AFP/ATL Machines market by segment, 2022 & 2032 (USD Million)
- FIG 10. Global AFP/ATL Machines market by segment, 2022 & 2032 (USD Million)
- FIG 11. Global AFP/ATL Machines market by segment, 2022 & 2032 (USD Million)
- FIG 12. Global AFP/ATL Machines market by segment, 2022 & 2032 (USD Million)
- FIG 13. Global AFP/ATL Machines market by segment, 2022 & 2032 (USD Million)
- FIG 14. Global AFP/ATL Machines market, regional snapshot 2022 & 2032
- FIG 15. North America AFP/ATL Machines market 2022 & 2032 (USD Million)
- FIG 16. Europe AFP/ATL Machines market 2022 & 2032 (USD Million)
- FIG 17. Asia pacific AFP/ATL Machines market 2022 & 2032 (USD Million)
- FIG 18. Latin America AFP/ATL Machines market 2022 & 2032 (USD Million)
- FIG 19. Middle East & Africa AFP/ATL Machines market 2022 & 2032 (USD Million)
- FIG 20. Global AFP/ATL Machines market, company market share analysis (2023)

...

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