

Automatic Filament Winding Machines Market Outlook 2025-2034: Market Share, and Growth Analysis By Type (2-Axis Filament Winding Machine, 3-Axis Filament Winding Machine, 4-Axis Filament Winding Machine, 5-Axis And 6-Axis Filament Winding Machine), By Application (Pressure Vessels, Pipes and Tanks), By End-Use Industries

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Abstracts

The Automatic Filament Winding Machines Market is valued at USD 2.3 billion in 2025 and is projected to grow at a CAGR of 13.2% to reach USD 7 billion by 2034. The Automatic Filament Winding Machines market involves machines that automate the process of winding filaments onto mandrels to produce composite materials. These machines are used in various industries, including aerospace, automotive, and energy. The market is driven by the increasing demand for lightweight and high-strength composite materials.

Automatic filament winding machines use computer-controlled systems to precisely wind filaments onto rotating mandrels. These machines can handle various types of filaments and winding patterns, producing complex shapes and structures. Filament winding is used to manufacture products like pressure vessels, pipes, and structural components.

The market is seeing advancements in machine automation and control systems, which are improving the accuracy and efficiency of filament winding. The focus is on developing machines that can handle a wider range of materials and produce more complex shapes. The increasing demand for composite materials in various industries is driving market growth.

Key Insights Automatic Filament Winding Machines Market

Increasing automation and precision in filament winding machines.

Development of machines that can handle diverse materials and shapes.

Rising demand for multi-axis filament winding systems.

Integration with CAD/CAM software for optimized design and manufacturing.

Focus on reducing manufacturing costs and improving production efficiency.

Increasing demand for lightweight and high-strength composite materials.

Growing adoption of composites in aerospace, automotive, and energy industries.

Need for automated manufacturing processes to improve efficiency.

Advancements in machine automation and control systems.

Rising demand for customized and complex composite structures.

High initial investment costs for automatic filament winding machines.

Ensuring machine reliability and minimizing downtime.

Handling diverse materials and winding patterns without compromising quality.

Addressing the complexity of designing and manufacturing composite structures.

Overcoming technical challenges related to material handling and processing.

Automatic Filament Winding Machines Market Segmentation

By Type

2-Axis Filament Winding Machine

3-Axis Filament Winding Machine

4-Axis Filament Winding Machine

5-Axis And 6-Axis Filament Winding Machine

By Application

Pressure Vessels

Pipes and Tanks

By End-Use Industries

Aerospace And Defense

Automotive

Key Companies Analysed

Murata Machinery Ltd.

GTI Composite

Ingersoll Machine Tools

Magnum Venus Products (MVP)

Pultrex

Advanced Composites Inc.

Cygnet Texkimp

Autonational Composite Machinery

Mikrosam

EMAI Composites

Vem Technologies S.r.l.

Matrasur Composites

Engineering Technology Corp. (Toray)

Roth Composite Machinery

MF Tech

Comec Innovative Srl

Hille Engineering

X-Winder LLC

Beijing Vidatech

Schmidt and Heinzmann GmbH & Co. KG

McClellan Anderson

Harbin Composite Equipment

Shanghai Vanguard Composites Technique

Cincinnati Composite Machines (CCM)

Rooks Automation

TANIQ BV

Shenzhen HONEST Intelligent Equipment Co. Ltd.

Automatic Filament Winding Machines Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Automatic Filament Winding Machines Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Automatic Filament Winding Machines market data and outlook to 2034

United States

Canada

Mexico

Europe — Automatic Filament Winding Machines market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Automatic Filament Winding Machines market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Automatic Filament Winding Machines market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Automatic Filament Winding Machines market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Automatic Filament Winding Machines value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Automatic Filament Winding Machines industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Automatic Filament Winding Machines Market Report

Global Automatic Filament Winding Machines market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Automatic Filament Winding Machines trade, costs, and supply chains

Automatic Filament Winding Machines market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Automatic Filament Winding Machines market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Automatic Filament Winding Machines market trends, drivers, restraints, and opportunities

Porter’s Five Forces analysis, technological developments, and Automatic Filament Winding Machines supply chain analysis

Automatic Filament Winding Machines trade analysis, Automatic Filament Winding Machines market price analysis, and Automatic Filament Winding Machines supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Automatic Filament Winding Machines market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

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