

# Composite Tooling Market to Reach USD 926 Million by 2035, Driven by Aerospace and Automotive Industry Demand

*UK composite tooling sales are projected to grow at a 4.8% CAGR from 2025 to 2035, driven by rising demand in aerospace, automotive, and wind energy sectors.*

NEWARK, DE, UNITED STATES, May 12, 2025 /EINPresswire.com/ -- The [composite tooling market](#), valued at USD 577 million in 2025, is projected to grow at a steady CAGR of 4.9% and reach USD 926 million by 2035. This growth is driven by rising demand from the aerospace, automotive, and wind energy sectors, where lightweight and high-performance materials are increasingly essential for manufacturing efficiency and product performance.



Composite tooling refers to the tools used in the production of composite parts, typically made from carbon fiber, fiberglass, or other fiber-reinforced materials. These tools are used in processes such as autoclave molding, resin transfer molding (RTM), and compression molding. Unlike traditional metal tooling, composite tooling offers lightweight construction, improved thermal stability, and reduced cycle times, making it particularly attractive for high-performance manufacturing environments.

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The composite tooling market is set for robust growth, driven by rising demand in aerospace, automotive, and wind energy sectors for lightweight, efficient solutions.”

*Nikhil Kaitwade*

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## Key Market Drivers

One of the primary drivers of growth in the composite tooling market is the expanding aerospace sector. Aircraft manufacturers are increasingly integrating composite materials into their designs to reduce overall weight and improve fuel efficiency. This has led to a higher demand for precision tooling that can withstand extreme temperatures and repeated use while maintaining dimensional accuracy. Composite tooling offers the durability and customization required to meet the exacting standards of the aerospace industry, which continues to be a cornerstone of market growth.

The automotive industry is also a significant contributor to market expansion. As regulatory pressures and consumer expectations push manufacturers toward lightweight vehicles with improved fuel economy and lower emissions, composite components are being adopted more widely. Tooling solutions made from composites enable faster production cycles and lower costs in the mass production of automotive parts. This has encouraged automakers to invest in advanced tooling technologies to maintain competitiveness and sustainability.

Moreover, the wind energy sector is increasingly reliant on composite materials, particularly in the manufacture of turbine blades. These large, aerodynamically complex structures require tooling solutions that can accommodate their size while ensuring precision and structural integrity. The shift toward renewable energy sources and the growing investment in wind farms globally are expected to substantially boost the demand for composite tooling in this segment.

### Aerospace Sector Remains a Major Growth Engine

Among all the end-use industries, aerospace continues to dominate the composite tooling landscape. The sector's relentless focus on weight reduction to enhance fuel efficiency and reduce emissions has made composite parts indispensable in aircraft manufacturing. From fuselage sections to wing structures and interior components, composites have become a preferred choice. In turn, this has amplified the need for precision tooling capable of withstanding extreme conditions and offering high repeatability in manufacturing. Aerospace OEMs and suppliers are increasingly investing in advanced tooling solutions that reduce cycle times and improve throughput.

Moreover, the commercial aerospace segment is witnessing a resurgence in aircraft orders as global air travel continues to rebound. This resurgence is expected to further fuel the demand for composite tooling solutions. In addition, the growing interest in next-generation aircraft platforms, including electric and hybrid-electric aircraft, is set to open new avenues for innovative tooling technologies.

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## Automotive Industry Accelerates Composite Integration

The automotive industry is another key driver of the composite tooling market. As automakers face stringent emissions regulations and shifting consumer preferences toward electric and hybrid vehicles, lightweighting has become a central theme in vehicle design. Composite materials are playing an increasingly prominent role in chassis, body panels, and interior components. To support this transition, manufacturers are turning to composite tooling solutions that offer shorter lead times and enhanced design flexibility.

Tooling systems that enable rapid prototyping and cost-efficient production of composite parts are particularly in demand among electric vehicle (EV) manufacturers. The ability of composite tooling to accommodate complex geometries and integrate multifunctional components is also proving vital for improving vehicle performance and manufacturing efficiency. This shift is expected to solidify the role of composite tooling in next-generation automotive manufacturing.

### Regional Outlook

Geographically, North America remains a dominant force in the composite tooling market, thanks to its well-established aerospace and defense industries. Major manufacturers and suppliers in the United States continue to invest in research and development, resulting in a high concentration of technological innovation in the region. The presence of top-tier companies and strong government support for advanced manufacturing further solidify North America's leadership position.

Europe also holds a significant share of the global market, driven by robust automotive production and increasing adoption of renewable energy. Countries like Germany, France, and the United Kingdom are leading the way in integrating composite materials into various industrial applications, thereby driving demand for high-quality tooling solutions.

The Asia-Pacific region, however, is expected to witness the fastest growth during the forecast period. Rapid industrialization, infrastructure development, and increased investment in aerospace and wind energy projects in countries such as China, India, and South Korea are fueling market growth. The expansion of local manufacturing capabilities and government support for clean energy initiatives are expected to further enhance the region's composite tooling industry.

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### Key Players

- Hexcel Corporation
- Airtech Advanced Materials Group
- Janicki Industries
- Gurit
- North Coast Tool & Mold Corp.
- Shape Machining Ltd
- Diatex Group
- Tooling Tech Group
- Formax UK Ltd (Part of Hexcel)
- IDI Composites International
- CCP Gransden
- Weiss Technik

## Key Segments

By Resin Type:

Epoxy, Bismaleimides (BMI), Others

By Application:

Automotive, Aerospace & Defense, Wind, Others

By Region:

North America, Latin America, Europe, East Asia, South Asia, Oceania, Middle East & Africa

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