

Business Opportunities Analysis of Fasteners for Advanced Applications in the U.S.



Market Overview

As of 2023, the U.S. industrial fastener market was valued at approximately USD 17.26 billion and is projected to reach USD 23.04 billion by 2033, growing at a CAGR of 2.96%. This growth is fueled by increasing demand in sectors requiring high-performance fasteners, such as aerospace, automotive, and electronics.¹

The aerospace industry, in particular, has shown robust demand for fasteners. The supplier companies for the aerospace industry in the US have raised their profit forecasts due to strong demand for aerospace parts, including fasteners, despite challenges like tariffs. This indicates a resilient market with opportunities for suppliers who can meet the stringent requirements of advanced applications.²

Key Market Segments

Aerospace

The aerospace sector is a significant consumer of advanced fasteners. With the increasing complexity of aircraft and the need for lightweight yet strong components, the demand for specialized fasteners has surged. **The U.S. aerospace industry continues to grow, with companies like Boeing and Airbus reporting record order backlogs. This growth translates into increased demand for high-performance fasteners.** presenting opportunities for manufacturers specializing in aerospace-grade components.

In 2025, the US aerospace and defence manufacturing market is projected to see a value-added increase of US\$116.28 billion. The output is projected to reach US\$244.51 billion in 2025, with a CAGR of 0.24% for the same period. The market is expected to be dominated by North America, with the region anticipated to grow at the fastest rate.³

Automotive

The automotive industry remains the largest application segment for industrial fasteners. **With the shift towards electric vehicles (EVs) and autonomous driving technologies, the need for lightweight and durable fasteners has become more pronounced.** Materials such as aluminum and composites are increasingly used to reduce vehicle weight and improve fuel efficiency.

In 2025, the U.S. automotive industry is projected to see mixed growth. New-vehicle sales are expected to reach 16.3 million units, a 3% increase from 2024, indicating a positive outlook. However, passenger car revenue is projected to show an annual growth rate of -1.47%, resulting in a projected market volume of US\$600.9 billion by 2029. The largest segment is SUVs, with a projected market volume of US\$336.8 billion in 2025.⁴

Electronics

The electronics industry demands miniature and precision fasteners for devices like smartphones, laptops, and wearable technology. **As devices become more compact and complex, the need for fasteners that can provide secure connections without compromising space or performance increases.**

1. https://www.visionresearchreports.com/us-industrial-fasteners-market/40817?utm_source=chatgpt.com

2. https://www.reuters.com/business/aerospace-defense/howmet-aerospace-lifts-2025-profit-forecast-robust-parts-demand-2025-05-01/?utm_source=chatgpt.com

3. <https://www.precedenceresearch.com/aerospace-market>

4. <https://www.spglobal.com/automotive-insights/en/blogs/2025/02/us-auto-sales-2025>

5. <https://www.statista.com/outlook/cmo/consumer-electronics/united-states>



The U.S. consumer electronics market is projected to experience modest growth in 2025. While some forecasts suggest a 1.49% annual growth rate (CAGR) between 2025 and 2029, others project a slightly higher growth rate of 4.6% from 2025 to 2030. Overall, the industry is expected to see continued growth, albeit at a slower pace compared to previous years.⁵

Construction and Infrastructure



The construction industry utilizes a vast array of fasteners for structural applications. **With the emphasis on sustainable building practices and the use of prefabricated components, there's a growing need for fasteners that can facilitate quick assembly and disassembly.** Corrosion-resistant and high-strength fasteners are particularly in demand for infrastructure projects exposed to harsh environmental conditions.

In 2025, the U.S. construction and infrastructure industry is projected to see an annual growth of 5.6%, reaching a market value of US\$1.27 trillion. While the construction sector experienced robust growth between 2020 and 2024 with a CAGR of 7.3%, the forecast for 2025-2029 shows a slower CAGR of 4.4%.⁶ This indicates a shift towards more sustainable technologies and a focus on efficiency and value creation through advanced technologies like AI and IoT.

Emerging Trends

- **Advanced Materials:** The development of new materials is revolutionizing the fastener market. Manufacturers are investing in research to create fasteners from materials like graphene composites, which offer exceptional strength-to-weight ratios. These materials are especially beneficial in aerospace and automotive applications, where reducing weight without compromising strength is crucial.
- Additionally, the use of bio-based polymers and recycled materials aligns with the industry's move towards sustainability. Eco-friendly fasteners not only meet environmental regulations but also appeal to consumers and companies prioritizing green initiatives.
- **Smart Fastening Technologies:** The integration of smart technologies into fastening solutions is an emerging trend. Innovations such as RFID-enabled fasteners and torque-monitoring systems enhance the assembly process by providing real-time data on fastening conditions. These technologies are particularly valuable in industries where precision and traceability are paramount, such as aerospace and automotive manufacturing. Augmented reality (AR) tools are also being utilized to assist in the fastening process. For instance, connected torque wrenches with AR capabilities can guide operators through complex assembly tasks, ensuring accuracy and efficiency.
- **Customization and Specialty Fasteners:** There's a growing demand for customized fasteners tailored to specific applications. Industries are seeking fasteners that meet unique design requirements, whether it's for aesthetic purposes, specific mechanical properties, or compatibility with advanced manufacturing processes like 3D printing. Specialty fasteners, including tamper-resistant and high-performance variants, are gaining traction in sectors like aerospace, automotive, and electronics. These fasteners offer enhanced security and performance, addressing the specialized needs of advanced applications.

Last Words

The fastener industry, though facing challenges, is on a trajectory of innovation and growth. Stakeholders who proactively engage with emerging trends and invest in advanced applications will be well-positioned to capitalize on the evolving landscape of the U.S. fastener market. Some of the challenges are:

- **Supply Chain and Tariffs:** The fastener industry faces challenges related to supply chain disruptions and tariffs. The impact of tariffs on production costs but have managed to maintain profitability by passing these costs onto customers. Navigating these challenges requires strategic sourcing and supply chain management to ensure consistent delivery and cost-effectiveness.
- **Sustainability and Environmental Regulations:** Environmental concerns and regulations are pushing manufacturers to adopt sustainable practices. This includes using recycled materials, reducing energy consumption, and minimizing waste. Companies that prioritize sustainability not only comply with regulations but also gain a competitive edge by appealing to environmentally conscious consumers and businesses.
- **Technological Advancements:** Embracing technological advancements presents significant opportunities. The adoption of automation, robotics, and advanced manufacturing techniques can enhance production efficiency and product quality. Investing in research and development to innovate fastening solutions will position companies at the forefront of the industry.

In summary, The U.S. fastener market for advanced applications is poised for substantial growth, driven by technological innovations, evolving industry requirements, and a focus on sustainability. Companies that can adapt to these trends and meet the specialized needs of sectors like aerospace, automotive, and electronics will find ample opportunities for expansion. By investing in advanced materials, smart technologies, and sustainable practices, manufacturers can secure a competitive advantage in this dynamic market. ■

6. <https://www.businesswire.com/news/home/20250430919764/en/United-States-Construction-Industry-Databook-2025-Industrial-Construction-Grows-with-E-commerce-and-Reshoring-Trends-Institutional-Construction-Faces-Funding-and-Regulatory-Hurdles---ResearchAndMarkets.com>

