

Aerospace Riveting Equipment Market: Current Analysis and Forecast (2025-2033)

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Abstracts

Aerospace riveting equipment is an advanced tool and system that is used to join, overhaul, and bolster airframe structures. Riveting is a fastening method that is used in aerospace due to its robustness, endurance, and ability to combat vibration and cyclic stress. The market offers a wide range of products, including rivet guns, blind rivet tools, squeeze riveters, and automated fixed riveting systems designed for large-scale assembly lines. Additionally, rising demand for maintenance, repair, and overhaul (MRO) activities is driving market growth. Moreover, innovations in automation, robotics, and lightweight material applications are shaping the adoption of effective, meticulous, and resilient riveting solutions, thereby driving the market's growth.

The Aerospace riveting equipment market is set to show a growth rate of about 4.25% during the forecast period (2025-2033F). Due to an increasing aircraft manufacturing and fleet expansion in the commercial and defense sectors. Rising demand for air travel and fleet modernization programs is driving the need for effective and robust fastening methods. Additionally, the growing demand for lightweight materials and superalloys in aircraft manufacturing is driving the demand for riveting tools. Furthermore, the rising demand for line maintenance to improve aircraft operational condition and service life, with the integration of advanced technologies such as robotics, automation, and digital monitoring, further drives the growth of equipment globally.

Based on the rivet type, the market is categorized into solid rivet, blind rivet, and semi-tubular rivet. Among these, the blind rivet segment dominated the aerospace riveting equipment market due to its simplicity, ease of installation, robustness, and reliability. These rivets are used in circumstances where only one side of the workpiece is accessible. However, the solid rivet segment is showing the fastest growth due to its unrivaled durability, superior engineering,

and performance in key structure applications such as fuselage and wing assembly. Additionally, the increasing aircraft manufacturing and fleet upgradation are driving the growth of solid rivets in the market.

Based on equipment type, the market is categorized into hydraulic equipment, pneumatic equipment, and electric equipment. Among these, the pneumatic equipment segment dominated the market due to its lightweight, cost-effectiveness, high efficiency, and precision. They are crucial in aerospace assembly lines due to ease of maintenance and have the capability of providing a consistent force for repetitive tasks. However, the electric equipment is showing the fastest growth. This is due to the growing demand for energy-saving systems that offer controlled force, accuracy, and low running costs. Additionally, these rivets easily integrate with the automated production process, thereby driving the growth of the market.

Based on technology, the market is segmented into automated equipment and manual equipment. The automated equipment segment dominated the market due to its efficiency, accuracy, lower human error, and capacity to handle manufacturing processes on a large scale. However, the manual equipment segment is showing the fastest growth due to its reliable and adaptable nature, especially in circumstances where automated equipment is not available.

Based on end-use, the market is segmented into original equipment manufacturers (OEM) and maintenance, repair, and overhaul (MRO). The original equipment manufacturers (OEM) segment dominated the market due to the increasing production of new aircraft. Furthermore, aircraft manufacturers depend heavily on automated and accurate riveting equipment to assemble complex structural components such as fuselage, wings, and tail sections to make sure the safety, strength, and reliability of aircraft. The integration of robotics and Industry 4.0 technologies has significantly improved production volume and cut down the operational costs, thereby boosting their growth. However, MRO is showing the fastest growth due to increasing demand for maintenance and modification requirements for older fleets.

For a better understanding of the demand of aerospace riveting equipment, the market is analyzed based on its worldwide adoption in countries such as North America (U.S., Canada, and the Rest of North America), Europe (Germany, U.K., France, Spain, Italy, Rest of Europe), Asia-Pacific (China, Japan, India, South-Korea and the Rest of Asia-Pacific), and Rest of World. Among these,

North America has been the market leader due to the presence of leading aircraft manufacturers, smart aerospace infrastructure, and higher defense aerial operations. The Asia Pacific region is, however, likely to be growing the fastest over the next years due to increasing aircraft manufacturing, rising industrialization, and increasing defense operations. Additionally, the continuous investments in the R&D department, early adoption of automation in manufacturing, and supportive government policies, along with the presence of established OEMs, such as Boeing, contributed to North America's growth in the market.

Some major players running in the market include Ingersoll Rand Inc., Brown Aviation & Aircraft Tools, LAS Aerospace Ltd., Orbitform Group, LLC., Precision Castparts Corp. (Cherry Aerospace), GESIPA (SFS Group), Howmet Aerospace Inc., Orbital Systems (Bombay) Private Limited, Atlas Copco AB, and Broetje-Automation GmbH.

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