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Screw Thread Inserts Market Forecasts to 2034 – Global Analysis By Type (Screw Locking Inserts and Free Running Inserts), End User (Electronics, Automotive, Aerospace, Machinery Industry and Other End Users) and By Geography

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Abstracts

According to Stratistics MRC, the Global Screw Thread Inserts Market is accounted for $1.7 billion in 2026 and is expected to reach $2.8 billion by 2034 growing at a CAGR of 6.4% during the forecast period. Screw thread inserts are cylindrical metal components with internal and external threading. They are designed to be inserted into a pre-drilled hole in materials such as metal, plastic, or wood to provide a reinforced and durable threaded connection. They are widely used in various industries, including automotive, aerospace, electronics, and general manufacturing, where reliable and secure fastening solutions are essential for the integrity and performance of components.

Market Dynamics:

Driver:

Rising demand for lightweight and compact components

As industries increasingly prioritise efficiency and weight reduction in their products, thread inserts enable secure fastening in lightweight materials like aluminium and composites. They reinforce threads, allowing for thinner walls and smaller components without compromising strength. This facilitates compact designs in aerospace, automotive, electronics, and consumer goods, meeting the need for lighter, more efficient products. Furthermore, thread inserts play a vital role in ensuring reliable connections while reducing overall weight, aligning with the market's demand for

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compactness and efficiency in various industries.

Restraint:

High cost

Screw thread inserts can be relatively more expensive compared to traditional fastening methods, such as tapping or self-tapping screws. The materials used in manufacturing screw thread inserts, such as stainless steel or specialized alloys, can be more expensive than the materials used in traditional fasteners. However, the additional cost of acquiring and installing screw thread inserts may deter cost-sensitive industries or applications from adopting them. These factors hamper market demand.

Opportunity:

Technological advancements

Continuous improvements in manufacturing technologies have led to enhanced production processes, higher product quality, and increased efficiency, driving the growth and adoption of screw thread inserts. Additive manufacturing, also known as 3D printing, has emerged as a significant technological advancement in screw thread inserts. Additive manufacturing allows for the production of complex geometries and customized designs, offering flexibility and adaptability in creating screw thread inserts. Moreover, it enables the manufacturing of inserts with unique features, such as integrated flanges or customized thread profiles, tailored to specific application needs.

Threat:

Installation complexity

Screw thread inserts generally require specialized tools and techniques for their installation. The installation process involves drilling, tapping, or thread cutting, followed by the insertion of the inserts. The complexity of the installation process can be a deterrent for consumers. It may require additional training or expertise to ensure proper installation, which can increase costs and time requirements. Screw thread insert adoption may be difficult for industries or applications lacking the required resources or expertise, which hinders market growth.

Covid-19 Impact

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The COVID-19 pandemic has had a significant impact on the screw thread insert market. The pandemic led to disruptions in global supply chains due to lockdowns, restrictions on movement, and temporary closures of manufacturing facilities. These disruptions affected the production and availability of screw thread inserts, leading to delays in delivery and increased lead times. Moreover, the pandemic resulted in economic uncertainties and a decline in consumer spending. This, in turn, affected investment decisions and delayed or postponed projects that require screw thread inserts.

The screw locking inserts segment is expected to be the largest during the forecast period

The screw locking inserts segment is estimated to hold the largest share. These inserts are engineered components designed to be threaded into materials like metal or plastic to reinforce and strengthen the threads, thereby preventing wear, corrosion, or stripping. The primary function of screw locking inserts is to ensure a secure and enduring threaded connection, which is critical in industries where precision and durability are paramount. Additionally, the locking mechanism typically involves coils or other features that grip the threads of the bolt or screw, preventing it from unintentional rotation or loosening due to external vibrations or operational stresses.

The aerospace segment is expected to have the highest CAGR during the forecast period

The aerospace segment is anticipated to have lucrative growth during the forecast period. Screw thread inserts in the aerospace industry serve to enhance the performance of threaded connections by preventing issues such as thread wear, corrosion, or loosening due to intense vibrations. The use of specialized inserts, including those with screw locking mechanisms, is crucial to maintain the integrity of fastened components and reducing the risk of failure, which is especially critical in aviation.

Region with largest share:

Asia Pacific commanded the largest market share during the extrapolated period. As the region experiences robust economic growth, there is an increasing demand for precision engineering solutions, including screw thread inserts. The automotive, electronics, and machinery manufacturing sectors in countries like China, Japan, and

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India are key contributors to the escalating need for reliable threaded connections. Moreover, in this region, factors such as the burgeoning manufacturing sector, infrastructure development, and a rise in foreign direct investments contribute to the market's growth.

Region with highest CAGR:

North America is expected to witness profitable growth over the projection period, the region's automotive industry, characterized by a constant pursuit of innovation and efficiency, is a significant contributor to the demand for high-quality threaded connections. Furthermore, the region's commitment to technological advancements and the adoption of cutting-edge materials reinforces the importance of reliable threaded connections, where screw thread inserts play a pivotal role in ensuring durability and performance.

Key players in the market

Some of the key players in the Screw Thread Inserts Market include Helical Wire, Inc., Bordo International, Shenyang Helisert, Recoil, Dalian Andi, Harishrum Engineers, Ameca, Chrislynn Inserts and Xinxiang Donghai Industry.

Key Developments:

In March 2022, Blackhawk Aerospace has signed a Letter of Intent to acquire controlling ownership of Recoil Aerospace LLC, an innovative designer and manufacturer of lightweight, carbon fiber composite wild land fire suppression tanks, aircraft aero structures and ballistically tolerant auxiliary fuel tanks for helicopters.

Types Covered:

- Screw Locking Inserts
- Free Running Inserts

End Users Covered:

- Electronics

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- Automotive
- Aerospace
- Machinery Industry
- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan
  - China

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- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina
- Brazil
- Chile
- Rest of South America

Middle East & Africa

- Saudi Arabia
- UAE
- Qatar
- South Africa
- Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants

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Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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