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Air Starter Market Forecasts to 2030 – Global Analysis By Type (Pneumatic Starters, Turbine Air Starters, Vane Air Starters and Other Types), Engine Type, Material, Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Air Starter Market is accounted for $470.7 million in 2024 and is expected to reach $710.3 million by 2030 growing at a CAGR of 7.1% during the forecast period. An air starter is a device used to start engines, particularly in industrial and large-scale applications, by using compressed air to rotate the engine's crankshaft. It consists of an air motor that, when supplied with compressed air, drives a gear to engage with the engine’s flywheel. Air starters are preferred in environments where electrical starters could pose a hazard, such as in hazardous areas or marine applications. They are reliable, lightweight, and offer high torque output for efficient engine start-ups.

According to the U.S. Energy Information Administration, oil production in the US rose from 11,742 barrels per day in May 2022 to 13,201 barrels per day in May 2024, reflecting a significant increase in output.

Market Dynamics:

Driver:

Increased industrialization

Increased industrialization is significantly driving the demand for the market across various sectors. As industries expand, especially in manufacturing, construction, and energy, the need for reliable and powerful engines has surged. Air starters are

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particularly favored in heavy machinery and equipment used in mining, and large-scale manufacturing due to their safety, durability, and ability to function in extreme conditions. This industrial growth, combined with the need for high-performance, spark-free starters, is fueling the expansion of the market.

Restraint:

Limited efficiency

Limited efficiency in air starters poses a significant challenge in the market. The need for a continuous supply of compressed air can lead to energy inefficiency, especially in applications where air demand is sporadic or low. This can result in higher operational costs and increased energy consumption compared to more efficient electric starters. Additionally, the reliance on compressed air infrastructure can limit the flexibility and scalability of systems, potentially reducing the overall appeal of air starters in cost-sensitive industries or applications.

Opportunity:

Safety and reliability

Air starters are preferred in hazardous environments, such as oil rigs, chemical plants, and mining operations, because they operate without sparks, reducing the risk of explosions or fires. Additionally, their robustness and ability to function in extreme conditions, such as high heat or freezing temperatures, make them highly reliable for critical machinery and equipment. These attributes ensure uninterrupted performance, boosting their demand in sectors where safety and operational consistency are paramount.

Threat:

Environmental concerns

Environmental concerns in the market stem from the increased energy consumption required for compressing air. The process of generating and storing compressed air can lead to higher carbon emissions, especially if powered by non-renewable energy sources. Additionally, the use of air starters contributes to noise pollution, which is a concern in sensitive environments. These environmental impacts may lead to regulatory pressures and a shift towards more sustainable alternatives, posing challenges for the

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growth.

Covid-19 Impact:

The COVID-19 pandemic had a significant impact on the market, disrupting supply chains and halting industrial activities worldwide. Manufacturing delays and reduced demand from industries such as automotive, aviation, and energy led to a slowdown in market growth. Additionally, labor shortages and health-related restrictions affected production and installation of air starters. However, as industries gradually recover and adapt to new safety protocols, the market is expected to rebound, with renewed demand for reliable, spark-free starting solutions in critical operations.

The pneumatic starters segment is expected to be the largest during the forecast period

The pneumatic starters segment is expected to account for the largest market share during the forecast period. They are commonly used in environments such as offshore drilling, mining, and aviation, where electrical systems may pose a risk of sparks or explosions. Pneumatic starters offer high torque, reliability, and efficiency in extreme conditions, making them ideal for heavy machinery and equipment. Their ability to operate in harsh environments drives their widespread adoption across various industrial sectors.

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

Over the forecast period, the cargo vessels segment is predicted to witness the highest growth rate. These starters are crucial in preventing hazards, as they operate without sparks, making them ideal for environments where explosive gases or flammable substances may be present. Air starters provide high torque and durability, enabling cargo vessels to function efficiently in harsh marine conditions. The increasing global demand for maritime transport further drives the adoption of air starters in the shipping industry.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share. The region's emphasis on safety, especially in hazardous environments, fuels the adoption of pneumatic starters, which provide spark-free operation. Additionally, the increasing use of large machinery and engines in manufacturing and

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energy sectors boosts market demand. The focus on technological advancements and infrastructure development further supports the expansion of the air starter market, positioning it for continued growth.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR. The rise in industrialization, particularly in emerging economies like India and Southeast Asian nations, is contributing to an increase in the demand for air starters for heavy machinery and construction equipment. Additionally, with growing concerns about energy efficiency and environmental sustainability, air starters are seen as a preferable option in several sectors due to their energy-efficient operations and relatively low maintenance.

Key players in the market

Some of the key players in Air Starter market include Caterpillar Inc., Ingersoll Rand, Rotary Power, Parker Hannifin, Cooper Corporation, John Deere, Mitsubishi Heavy Industries, Atlas Copco, Rolls-Royce, Honeywell Aerospace, BMT Group, Kato Engineering, Cummins Inc., Wartsila and Kongsberg Gruppen.

Key Developments:

In January 2025, John Deerehas unveiled several new autonomous vehicles to support customers in agriculture, construction, and commercial landscaping at the CES 2025 technology event in Las Vegas. The company introduced its first autonomous articulated dump truck (ADT) and an autonomous battery-powered mower designed for commercial landscaping.

In August 2024, Japan Airlines and Mitsubishi Heavy Industries have announced a partnership to explore potential aftermarket collaboration, including MRO services, parts supply and refurbishment.

Types Covered:

- Pneumatic Starters
- Turbine Air Starters

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- Vane Air Starters
- Other Types

Engine Types Covered:

- Diesel Engines
- Gas Engines
- Aircraft Engines

Materials Covered:

- Steel
- Aluminum
- Composite Materials
- Titanium

Applications Covered:

- Cargo Vessels
- Naval Ships
- Power Generation
- Heavy Equipment
- Spacecraft
- Other Applications

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End Users Covered:

- Marine
- Industrial
- Aerospace
- Automotive
- Oil & Gas
- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe

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- Asia Pacific
  - Japan
  - China
  - 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

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What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- 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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