

# **Aircraft Turboprop Engine Market Forecasts to 2032 - Global Analysis By Engine Type (Single-Shaft Turboprop Engines, and Free Turbine Turboprop Engines), Power Output (Below 500 HP, 500 HP - 1,000 HP, 1,000 HP - 2,000 HP, and Above 2,000 HP), Propulsion, Platform, Application, Point of Sale, and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Aircraft Turboprop Engine Market is accounted for \$5.2 billion in 2025 and is expected to reach \$7.2 billion by 2032, growing at a CAGR of 4.8% during the forecast period. The aircraft turboprop engine market includes engines that drive propellers for regional aircraft, military transports, and special-mission platforms. It supports short-haul routes and operations from shorter runways. Growth is driven by demand for cost-effective regional connectivity, lower fuel consumption compared with jets on short sectors, expansion of regional airlines, defense transport needs, and increasing use in surveillance and utility aircraft.

### **Market Dynamics:**

Driver:

Demand for regional connectivity and short-haul operations

The increasing necessity to link secondary cities and remote regions with major aviation hubs is a primary driver for market expansion. These short-haul missions uniquely suit turboprop engines, which provide up to 40% better fuel efficiency on routes less than 500 miles compared to regional jets. Airlines can service underserved markets with

limited infrastructure thanks to their superior performance at lower altitudes and ability to operate from shorter, unpaved runways. Furthermore, as governments in emerging economies invest in domestic air-link schemes, the demand for these cost-effective propulsion systems continues to rise steadily.

#### Restraint:

##### Lower passenger preference compared to jets

Many travelers perceive turboprops as older, noisier, and less comfortable due to higher cabin vibration levels and lower cruise speeds. This "propeller bias" often leads commercial airlines to favor regional jets on competitive routes to maintain high load factors and brand prestige. Also, the longer transit times that come with turboprop flights can be a turn-off for business travelers, which mean that these engines are not used as much on longer regional routes around the world.

#### Opportunity:

##### Growth in special missions and cargo operations

The expansion of specialized aviation sectors, including maritime surveillance, search and rescue, and regional logistics, presents a substantial growth avenue. Turboprops offer the endurance and low-speed stability required for "loitering" missions, which are essential for defense and border security. Moreover, the explosion of e-commerce has heightened the need for feeder cargo aircraft that can deliver goods to smaller regional airports efficiently. Additionally, the rugged nature of these engines makes them ideal for humanitarian aid and medical evacuation in challenging environments, creating a diverse and resilient demand profile beyond commercial passenger transport.

#### Threat:

##### Pilot shortages impacting regional airline growth

Major airlines often recruit experienced pilots from regional tiers, leading to high attrition rates and increased recruitment costs for smaller operators. This instability can force airlines to reduce flight frequencies or retire turboprop fleets prematurely in favor of larger aircraft that require fewer crew members per seat. Furthermore, the rising cost of pilot training and certification may hinder the expansion of new regional startups, threatening long-term engine demand.

## **Covid-19 Impact:**

The COVID-19 pandemic caused a severe contraction in the aviation sector, leading to a sharp decline in new engine orders and maintenance services. Lockdowns and travel restrictions forced regional airlines to ground extensive portions of their fleets, significantly reducing engine flight hours. However, the turboprop segment demonstrated more resilience than the wide-body market, as domestic connectivity and essential cargo flights remained operational. A renewed focus on fuel efficiency and the gradual restoration of regional air networks worldwide have characterized the post-pandemic recovery.

The free turbine turboprop engines segment is expected to be the largest during the forecast period

The free turbine turboprop engines segment is expected to account for the largest market share during the forecast period due to its superior operational flexibility and efficiency. Unlike fixed-shaft designs, the free turbine setup lets the propeller speed be controlled separately from the engine's gas generator speed, improving performance during different stages of flight. This architecture significantly reduces the load during engine startup and provides a quieter cabin environment, which helps address passenger comfort concerns. Furthermore, the ease of maintenance and the modular nature of these engines make them highly attractive to cost-conscious regional and general aviation operators.

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

Over the forecast period, the cargo & logistics segment is predicted to witness the highest growth rate as global supply chains increasingly rely on rapid, decentralized distribution. The surge in "last-mile" delivery requirements and the growth of regional e-commerce hubs have necessitated a fleet of versatile, low-cost freighter aircraft. Turboprop engines are the preferred choice for these operations because they can handle high-frequency cycles and operate in varied climates with minimal ground support. Additionally, the conversion of older passenger turboprops into dedicated freighters is accelerating, further fueling the demand for engine overhauls and replacement parts in this specific niche.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share. An extensive network of regional airports, a mature general aviation sector, and significant defense spending on special mission aircraft support this dominance. The United States, in particular, hosts major engine manufacturers and a vast fleet of aging turboprops that require modernization or replacement. Moreover, the presence of established logistics giants who utilize turboprop feeders for domestic parcel delivery ensures a consistent demand for high-performance engines. The region's robust MRO infrastructure also supports the continued lifecycle of these propulsion systems.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR. Rapid urbanization and the "UDAN"-type schemes in countries like India and China are driving a massive expansion in regional air connectivity to previously inaccessible areas. As disposable incomes rise, the demand for affordable domestic air travel is surging, prompting airlines to invest in fuel-efficient turboprop fleets. Additionally, the geographic layout of archipelagic nations like Indonesia and the Philippines makes turboprop aircraft an essential tool for inter-island transport. Furthermore, increasing investments in indigenous aerospace manufacturing and regional defense modernization are positioning Asia Pacific as the primary growth engine for the global market.

Key players in the market

Some of the key players in Aircraft Turboprop Engine Market include Pratt & Whitney Canada, Honeywell International Inc., Rolls-Royce plc, GE Aerospace, Safran S.A., MTU Aero Engines AG, ITP Aero S.A., Europrop International GmbH, PBS Aerospace Inc., Motor Sich JSC, TUSAS Engine Industries, Inc., Klimov JSC, Aviadvigatel JSC, IHI Corporation, Aviation Industry Corporation of China (AVIC), and Williams International.

### **Key Developments:**

In December 2025, Rolls-Royce began AE 1107 engine testing to power the U.S. Army's FLRAA prototypes, reinforcing its turboprop portfolio alongside the M250 turboprop family.

In December 2025, ITP Aero signed a binding agreement to acquire Aero Norway,

strengthening aftermarket capabilities while continuing turboprop component production.

In September 2025, Honeywell unveiled the HON1600 (SkyShot 1600) engine, a small-thrust turboprop/turbofan hybrid designed for unmanned and collaborative combat aircraft.

#### Engine Types Covered:

Single-Shaft Turboprop Engines

Free Turbine Turboprop Engines

#### Power Outputs Covered:

Below 500 HP

500 HP ? 1,000 HP

1,000 HP ? 2,000 HP

Above 2,000 HP

#### Propulsions Covered:

Conventional (Thermal) Engines

Hybrid-Electric Turboprops

Hydrogen-Powered / SAF (Sustainable Aviation Fuel)

#### Platforms Covered:

Fixed-Wing Aircraft

Rotary-Wing

## Unmanned Aerial Vehicles (UAVs)

### Applications Covered:

Commercial Aviation

Military Aviation

General Aviation

Cargo & Logistics

### Point of Sales Covered:

Original Equipment Manufacturer (OEM)

Aftermarket

### Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

#### 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

**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 2024, 2025, 2026, 2028, and 2032
- 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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