

Global Axial and Jet Fans for Tunnel Ventilation Market Growth 2026-2032

<https://marketpublishers.com/r/G256F53A6D70EN.html>

Date: July 2026

Pages: 147

Price: US\$ 3,660.00 (Single User License)

ID: G256F53A6D70EN

Abstracts

The global Axial and Jet Fans for Tunnel Ventilation market size is predicted to grow from US\$ 383 million in 2025 to US\$ 527 million in 2032; it is expected to grow at a CAGR of 4.7% from 2026 to 2032.

Axial and jet fans for tunnel ventilation refer to dedicated air-moving equipment installed in road tunnels, railway tunnels, metro tunnels, immersed tunnels, cross-river or subsea tunnels, utility tunnels and other underground transport infrastructure. Their core functions are to dilute and remove pollutants during normal operation, including vehicle exhaust, dust, heat and hazardous gases, and to provide controlled airflow and smoke extraction under emergency conditions.

The scope focuses on large axial fans, reversible axial fans, unidirectional or reversible tunnel jet fans, impulse fans, Saccardo-type injection fans and directly integrated accessories such as silencers, guards, deflectors, high-temperature motors, mounting structures and corrosion-resistant casings. Key specifications normally include airflow, static pressure, thrust, thrust efficiency, reversibility, high-temperature fire rating, acoustic performance, vibration level, impeller balance and compliance with AMCA, ISO and EN smoke-control testing requirements.

For pricing, smaller low-thrust jet fans may appear in public channels at low-thousand-euro levels, while project-grade tunnel jet fans are generally procured through engineering tenders and may range from several thousand to tens of thousands of US dollars per unit. Large axial smoke-extraction fans, variable-pitch axial fans and certified high-temperature fan packages can reach substantially higher unit prices depending on diameter, thrust, pressure, motor rating, coating, silencing, certification and project acceptance requirements.

Based on our research, the market for axial and jet fans for tunnel ventilation should be understood as a specialised safety-critical equipment segment rather than a generic industrial fan category. The core demand is generated by permanent ventilation and emergency smoke-control requirements in underground transport infrastructure, including road tunnels, rail tunnels, metro tunnels, immersed tunnels and major utility tunnels. The product scope is best defined around two main families: large axial fans installed in ventilation shafts, fan rooms or transverse and semi-transverse systems, and tunnel jet fans or impulse fans installed inside the tunnel bore for longitudinal ventilation and smoke movement control. A narrow statistical boundary is therefore essential. Generic HVAC fans, car-park induction fans, temporary construction fans for tunnelling sites, and full EPC or control-system packages should not be counted as part of the core equipment revenue unless the fan hardware can be separately identified.

From a supply perspective, the industry is structured around a small group of global tunnel ventilation specialists, a set of regional OEMs with strong engineering credentials, and a broad base of local manufacturers serving domestic infrastructure programmes. European suppliers remain strong in high-temperature smoke-control certification, acoustic performance, tunnel aerodynamics and complex project references. Japanese companies have accumulated deep know-how through long domestic road tunnels and integrated tunnel ventilation systems. Chinese manufacturers have become increasingly important in metro, road tunnel and cross-river tunnel projects, supported by local manufacturing scale and project proximity. Because procurement is frequently embedded in electromechanical packages, simple revenue ranking is insufficient; competitive position should be assessed through product range, official evidence, project references, certification capability and the ability to manufacture reliable high-temperature axial and jet fan packages.

Demand growth is likely to be moderate but structurally resilient. New installations are driven by metro expansion, long road tunnels, immersed tunnels, subsea or cross-river links and underground transport infrastructure. Replacement demand is supported by ageing tunnel assets, stricter smoke-control expectations, noise reduction, energy-saving retrofits and variable-speed operation. The rise of electric vehicles may gradually reduce routine pollutant dilution requirements in some road tunnels, but it does not remove the need for emergency smoke control, heat management and life-safety ventilation. As a result, the industry is shifting from a pollutant-removal equipment market toward a safety, resilience and lifecycle-efficiency market.

Technology competition will increasingly focus on thrust efficiency, reversibility, high-

temperature reliability, acoustic performance, corrosion protection, condition monitoring and CFD-based system optimisation. Standards such as AMCA 250 and smoke-control certification practices demonstrate that tunnel jet fans are not simple commodity fans; they require verified aerodynamic performance, robust mechanical design and project-specific engineering validation. Larger suppliers will likely continue to differentiate through certified variable-speed smoke fan packages, low-profile or rectangular jet fan designs, digital lifecycle services and integrated tunnel ventilation engineering. Smaller manufacturers will remain relevant in regional markets where cost competitiveness, fast delivery and non-standard fabrication matter.

LP Information, Inc. (LPI) ' newest research report, the 'Axial and Jet Fans for Tunnel Ventilation Industry Forecast' looks at past sales and reviews total world Axial and Jet Fans for Tunnel Ventilation sales in 2025, providing a comprehensive analysis by region and market sector of projected Axial and Jet Fans for Tunnel Ventilation sales for 2026 through 2032. With Axial and Jet Fans for Tunnel Ventilation sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Axial and Jet Fans for Tunnel Ventilation industry.

This Insight Report provides a comprehensive analysis of the global Axial and Jet Fans for Tunnel Ventilation landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Axial and Jet Fans for Tunnel Ventilation portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Axial and Jet Fans for Tunnel Ventilation market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Axial and Jet Fans for Tunnel Ventilation and breaks down the forecast by Product Form, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Axial and Jet Fans for Tunnel Ventilation.

This report presents a comprehensive overview, market shares, and growth opportunities of Axial and Jet Fans for Tunnel Ventilation market by product type, application, key manufacturers and key regions and countries.

Segmentation by Product Form:

Large Axial Supply / Exhaust Fans

Reversible Axial Fans

Tunnel Jet / Impulse Fans

Other

Segmentation by Ventilation System Role:

Longitudinal Ventilation

Transverse

Semi-transverse Ventilation

Segmentation by Fire and Temperature Rating:

Normal Duty Fans

Medium-temperature Smoke Fans

F300 / F400 Fire-rated Fans

Project-specific Fire-rated Fans

Segmentation by Operating Duty:

Normal Ventilation

Emergency Smoke Extraction

Dual-purpose Ventilatio

Other

Segmentation by Application:

Road Tunnels

Railway Tunnels

Metro / Subway Tunnels

Utility / Service Tunnels

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Chart Industries

TLT-Turbo GmbH

Zitr?n, S.A.

Witt & Sohn AG

Fl?ktGroup

Kruger Ventilation Industries Asia

EBARA Corporation

Kawasaki Heavy Industries

Zhejiang Jindun Fans Co., Ltd.

NOVENCO Building & Industry

CBI Group

Nanfang Ventilator Co., Ltd.

INFINAIR Tongren Fan

DMW Corporation

Hitachi Industrial Products

Sodeca S.L.U.

Zhejiang Shangfeng Hi-Tech

Aironn

Twin City Fan

Samwon E&B

Seobun

Panasonic Corporation

Korfmann

Systemair AB

Soler & Palau Group

Key Questions Addressed in this Report

What is the 10-year outlook for the global Axial and Jet Fans for Tunnel Ventilation market?

What factors are driving Axial and Jet Fans for Tunnel Ventilation market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Axial and Jet Fans for Tunnel Ventilation market opportunities vary by end market size?

How does Axial and Jet Fans for Tunnel Ventilation break out by Product Form, by Application?

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