

Global Axial and Jet Fans for Tunnel Ventilation Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Axial and Jet Fans for Tunnel Ventilation market size was valued at US\$ 403 million in 2025 and is forecast to a readjusted size of US\$ 546 million by 2032 with a CAGR of 4.4% during review period.

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.

This report is a detailed and comprehensive analysis for global Axial and Jet Fans for Tunnel Ventilation market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Product Form and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Axial and Jet Fans for Tunnel Ventilation market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Axial and Jet Fans for Tunnel Ventilation market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Axial and Jet Fans for Tunnel Ventilation market size and forecasts, by Product Form and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Axial and Jet Fans for Tunnel Ventilation market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

Global Axial and Jet Fans for Tunnel Ventilation Market 2026 by Manufacturers, Regions, Type and Application,...

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Axial and Jet Fans for Tunnel Ventilation

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Axial and Jet Fans for Tunnel Ventilation market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Chart Industries, TLT-Turbo GmbH, Zitr?n, S.A., Witt & Sohn AG, FI?ktGroup, Kruger Ventilation Industries Asia, EBARA Corporation, Kawasaki Heavy Industries, Zhejiang Jindun Fans Co., Ltd., NOVENCO Building & Industry, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Axial and Jet Fans for Tunnel Ventilation market is split by Product Form and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Product Form, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Product Form

Large Axial Supply / Exhaust Fans

Reversible Axial Fans

Tunnel Jet / Impulse Fans

Other

Market segment by Ventilation System Role

Longitudinal Ventilation

Transverse

Semi-transverse Ventilation

Market segment by Fire and Temperature Rating

Normal Duty Fans

Medium-temperature Smoke Fans

F300 / F400 Fire-rated Fans

Project-specific Fire-rated Fans

Market segment by Operating Duty

Normal Ventilation

Emergency Smoke Extraction

Dual-purpose Ventilatio

Other

Market segment by Application

Road Tunnels

Railway Tunnels

Metro / Subway Tunnels

Utility / Service Tunnels

Other

Major players covered

Chart Industries

TLT-Turbo GmbH

Zitrón, S.A.

Witt & Sohn AG

FlaktGroup

Kruger Ventilation Industries Asia

EBARA Corporation

Kawasaki Heavy Industries

Zhejiang Jindun Fans Co., Ltd.

NOVENCO Building & Industry

CBI Group

Nanfeng 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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Axial and Jet Fans for Tunnel Ventilation product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Axial and Jet Fans for Tunnel Ventilation,

Global Axial and Jet Fans for Tunnel Ventilation Market 2026 by Manufacturers, Regions, Type and Application,...

with price, sales quantity, revenue, and global market share of Axial and Jet Fans for Tunnel Ventilation from 2021 to 2026.

Chapter 3, the Axial and Jet Fans for Tunnel Ventilation competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Axial and Jet Fans for Tunnel Ventilation breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Product Form and by Application, with sales market share and growth rate by Product Form, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Axial and Jet Fans for Tunnel Ventilation market forecast, by regions, by Product Form, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Axial and Jet Fans for Tunnel Ventilation.

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