

Global Turbine Engine Blade and Vane Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Turbine Engine Blade and Vane market size is expected to reach \$ 25542 million by 2032, rising at a market growth of 6.8% CAGR during the forecast period (2026-2032).

In 2025, global production of Turbine Engine Blade and Vane reached 3.0135 million pieces, with an average selling price of USD 5276 per piece, production capacity of approximately 3.56 million pieces, and a gross margin of around 28.5%.

Turbine Engine Blade and Vane refers to key hot-section and aerodynamic components used in aero turbine engines, industrial gas turbines, marine turbine propulsion systems and auxiliary power units, mainly including compressor blades and vanes, turbine rotor blades, turbine stator vanes and nozzle guide vanes. These products are generally made from nickel-based superalloys, titanium alloys, cobalt-based superalloys or ceramic matrix composites, and require high-temperature resistance, creep resistance, oxidation resistance, thermal fatigue resistance and high-precision aerodynamic profiles. They are among the core components that determine turbine engine efficiency, thrust, reliability and service life.

The global Turbine Engine Blade and Vane market has high technical barriers and strict customer qualification requirements, with demand mainly coming from commercial aero engines, military aero engines, industrial gas turbines, marine propulsion systems and power generation equipment. In the aviation sector, demand is supported by global fleet renewal, increasing narrow-body aircraft deliveries and the recovery of engine maintenance and replacement demand. In the industrial gas turbine sector, market growth is driven by rising electricity demand from data centers, gas-fired power generation for grid balancing and continued investment in energy infrastructure. On the

supply side, capabilities such as superalloy melting, single-crystal and directional solidification casting, precision machining, coating and non-destructive testing remain concentrated among leading OEM-affiliated manufacturers and specialized blade, vane and precision casting suppliers. Overall, the market is characterized by high unit value, small-batch production, long qualification cycles and long-term order relationships, with future growth mainly driven by aero engine aftermarket services, advanced gas turbine capacity expansion, and upgrades in high-temperature materials and cooling structures.

This report studies the global Turbine Engine Blade and Vane production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Turbine Engine Blade and Vane and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Turbine Engine Blade and Vane that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Turbine Engine Blade and Vane total production and demand, 2021-2032, (K Units)

Global Turbine Engine Blade and Vane total production value, 2021-2032, (USD Million)

Global Turbine Engine Blade and Vane production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Turbine Engine Blade and Vane consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Turbine Engine Blade and Vane domestic production, consumption, key domestic manufacturers and share

Global Turbine Engine Blade and Vane production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Turbine Engine Blade and Vane production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Turbine Engine Blade and Vane production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Turbine Engine Blade and Vane market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Mitsubishi, Turbo Blading Group,

Precision Castparts Corp, PBS, Collins Aerospace (Raytheon Technologies), Hi-Tek Manufacturing, SIFCO, MAPNA, Siemens Energy, Industrial Precision MFG, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Turbine Engine Blade and Vane market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Turbine Engine Blade and Vane Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Turbine Engine Blade and Vane Market, Segmentation by Type:

Turbine Rotor Blades

Turbine Stator Vanes

Nozzle Guide Vanes

Compressor Blades and Vanes

Global Turbine Engine Blade and Vane Market, Segmentation by Material Type:

Nickel-based Superalloy Blades and Vanes

Cobalt-based Superalloy Blades and Vanes

Titanium Alloy Blades and Vanes

Ceramic Matrix Composite Blades and Vanes

Global Turbine Engine Blade and Vane Market, Segmentation by Application:

Commercial Aircraft Engines

Military Aircraft Engines

Industrial Gas Turbines

Marine Propulsion Systems

Power Generation Equipment

Auxiliary Power Units

Companies Profiled:

Mitsubishi

Turbo Blading Group

Precision Castparts Corp

PBS

Collins Aerospace (Raytheon Technologies)

Hi-Tek Manufacturing

SIFCO

MAPNA

Siemens Energy

Industrial Precision MFG

Howmet Aerospace

Moeller

Wuxi ALF Blade

Anhui Yingliu Group

Doncasters

TURBOCAM

Key Questions Answered:

1. How big is the global Turbine Engine Blade and Vane market?
2. What is the demand of the global Turbine Engine Blade and Vane market?
3. What is the year over year growth of the global Turbine Engine Blade and Vane market?
4. What is the production and production value of the global Turbine Engine Blade and Vane market?
5. Who are the key producers in the global Turbine Engine Blade and Vane market?
6. What are the growth factors driving the market demand?

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