

Global Outsourcing of Gas Turbine Machined Blade Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Outsourcing of Gas Turbine Machined Blade market size is expected to reach \$ 386 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

Outsourcing of Gas Turbine Machined Blade refers to the production model in which OEMs (original equipment manufacturers) of gas turbines delegate part or all of the precision machining processes of turbine blades to third-party specialized suppliers. Turbine blades are critical components in gas turbines, subjected to high temperatures, high pressures, and high-speed airflow. Their manufacturing requires extremely high precision, including complex surface milling, grinding, cooling hole drilling, leading and trailing edge finishing, and surface thermal barrier coating. Due to the complexity of these processes, the high cost of equipment, and the technical barriers involved, OEMs often choose to outsource certain operations to suppliers with advanced machining capabilities and specialized expertise. This approach helps reduce production costs, shorten delivery times, and ensure product quality.

Outsourced turbine blade machining typically involves multiple high-precision techniques, such as five-axis CNC milling, precision grinding, electrical discharge machining (EDM), laser or micro-drilling of cooling holes, along with necessary heat treatment and surface coating operations. Suppliers must strictly control material properties, geometric dimensions, surface finish, and aerodynamic performance to ensure that the blades can operate reliably under high-temperature, high-speed conditions. Through this outsourcing model, OEMs can focus their resources on overall turbine design, performance optimization, and market development, while leaving the precision machining work to specialized vendors.

In addition, outsourcing of gas turbine machined blades also encompasses repair and remanufacturing services. After a period of use, some blades may experience wear, corrosion, or micro-cracks. OEMs send these blades to qualified machining suppliers for surface restoration, dimensional adjustments, and reapplication of thermal barrier coatings, restoring them to operational standards. By outsourcing both machining and remanufacturing, gas turbine manufacturers can manage their supply chains more flexibly, reduce lifecycle costs, and maintain the reliability and stability of high-end blade machining technology.

This outsourcing model is widespread in the global gas turbine industry, especially for high-end turbine blades such as high-pressure single-crystal or directionally solidified blades. Suppliers with mature processing techniques and advanced precision equipment are key partners for OEMs in maintaining product quality and meeting delivery requirements.

This report studies the global Outsourcing of Gas Turbine Machined Blade demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Outsourcing of Gas Turbine Machined Blade, 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 Outsourcing of Gas Turbine Machined Blade that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Outsourcing of Gas Turbine Machined Blade total market, 2021-2032, (USD Million)

Global Outsourcing of Gas Turbine Machined Blade total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Outsourcing of Gas Turbine Machined Blade total market, key domestic companies, and share, (USD Million)

Global Outsourcing of Gas Turbine Machined Blade revenue by player, revenue and market share 2021-2026, (USD Million)

Global Outsourcing of Gas Turbine Machined Blade total market by Type, CAGR, 2021-2032, (USD Million)

Global Outsourcing of Gas Turbine Machined Blade total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Outsourcing of Gas Turbine Machined Blade market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Siemens, Howmet Aerospace, Precision Castparts, GE, Mitsubishi Power, DongFang Electric Corporation, Shanghai Electric, Harbin Electric Company, CSIC LONGJIANG GH GAS TURBINE, Hangzhou Steam Turbine, 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 Outsourcing of Gas Turbine Machined Blade market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Outsourcing of Gas Turbine Machined Blade Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Outsourcing of Gas Turbine Machined Blade Market, Segmentation by Type:

Solid Blade Machining

Hollow Blade Machining

Global Outsourcing of Gas Turbine Machined Blade Market, Segmentation by Material Type:

Equiaxed Blade

Directionally Solidified Blade

Single-Crystal Blade

Global Outsourcing of Gas Turbine Machined Blade Market, Segmentation by Cooling Type:

Uncooled Blade

Air-Cooled Blade

Steam Cooled Blade

Liquid Cooled Blade

Global Outsourcing of Gas Turbine Machined Blade Market, Segmentation by Application:

Heavy Duty Gas Turbine

Aeroderivative Gas Turbine

Light Duty Gas Turbine

Companies Profiled:

Siemens

Howmet Aerospace

Precision Castparts

GE

Mitsubishi Power

DongFang Electric Corporation

Shanghai Electric

Harbin Electric Company

CSIC LONGJIANG GH GAS TURBINE

Hangzhou Steam Turbine

ENN Energy

Helan Turbines

Anhui Yingliu Electromechanical

Chengdu Aerospace Superalloy Technology

BAIMTEC MATERIAL

Wuxi Turbine Blade

Hehong Technology

Jiangsu Yuanqing Power Technology

Key Questions Answered

1. How big is the global Outsourcing of Gas Turbine Machined Blade market?
2. What is the demand of the global Outsourcing of Gas Turbine Machined Blade market?
3. What is the year over year growth of the global Outsourcing of Gas Turbine Machined Blade market?
4. What is the total value of the global Outsourcing of Gas Turbine Machined Blade market?
5. Who are the Major Players in the global Outsourcing of Gas Turbine Machined Blade market?
6. What are the growth factors driving the market demand?

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