

Global Outsourcing of Gas Turbine Machined Blade Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Outsourcing of Gas Turbine Machined Blade market size was valued at US\$ 248 million in 2025 and is forecast to a readjusted size of US\$ 386 million by 2032 with a CAGR of 6.5% during review period.

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 is a detailed and comprehensive analysis for global Outsourcing of Gas Turbine Machined Blade market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type 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 Outsourcing of Gas Turbine Machined Blade market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Outsourcing of Gas Turbine Machined Blade market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Outsourcing of Gas Turbine Machined Blade market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Outsourcing of Gas Turbine Machined Blade market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

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

To assess the growth potential for Outsourcing of Gas Turbine Machined Blade

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 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.

Market segmentation

Outsourcing of Gas Turbine Machined Blade market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Solid Blade Machining

Hollow Blade Machining

Market segment by Material Type

Equiaxed Blade

Directionally Solidified Blade

Single-Crystal Blade

Market segment by Cooling Type

Uncooled Blade

Air-Cooled Blade

Steam Cooled Blade

Liquid Cooled Blade

Market segment by Application

Heavy Duty Gas Turbine

Aeroderivative Gas Turbine

Light Duty Gas Turbine

Market segment by players, this report covers

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

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Outsourcing of Gas Turbine Machined Blade product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Outsourcing of Gas Turbine Machined Blade, with revenue, gross margin, and global market share of Outsourcing of Gas Turbine Machined Blade from 2021 to 2026.

Chapter 3, the Outsourcing of Gas Turbine Machined Blade competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Outsourcing of Gas Turbine Machined Blade market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Outsourcing of Gas Turbine Machined Blade.

Chapter 13, to describe Outsourcing of Gas Turbine Machined Blade research findings and conclusion.

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