

Global Outsourcing of Gas Turbine Machined Blade Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Outsourcing of Gas Turbine Machined Blade market size is predicted to grow from US\$ 236 million in 2025 to US\$ 375 million in 2032; it is expected to grow at a CAGR of 6.9% from 2026 to 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.

United States market for Outsourcing of Gas Turbine Machined Blade is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Outsourcing of Gas Turbine Machined Blade is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Outsourcing of Gas Turbine Machined Blade is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Outsourcing of Gas Turbine Machined Blade players cover Siemens, Howmet Aerospace, Precision Castparts, GE, Mitsubishi Power, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Outsourcing of Gas Turbine Machined Blade and breaks down the forecast by Type, 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 Outsourcing of Gas Turbine Machined Blade.

This report presents a comprehensive overview, market shares, and growth opportunities of Outsourcing of Gas Turbine Machined Blade market by product type, application, key players and key regions and countries.

Segmentation by Type:

Solid Blade Machining

Hollow Blade Machining

Segmentation by Material Type:

Equiaxed Blade

Directionally Solidified Blade

Single-Crystal Blade

Segmentation by Cooling Type:

Uncooled Blade

Air-Cooled Blade

Steam Cooled Blade

Liquid Cooled Blade

Segmentation by Application:

Heavy Duty Gas Turbine

Aeroderivative Gas Turbine

Light Duty Gas Turbine

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 analyzing the company's coverage, product portfolio, its market penetration.

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

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