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Global Single-crystal Turbine Blade Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

https://marketpublishers.com/r/S0322843E045EN.html
Date: August 2025
Pages: 87
Price: US$ 3,480.00 (Single User License)
ID: S0322843E045EN

Abstracts

According to our (Global Info Research) latest study, the global Single-crystal Turbine Blade market size was valued at US$ 493 million in 2024 and is forecast to a readjusted size of USD 760 million by 2031 with a CAGR of 6.3% during review period.

Single-crystal turbine blade is a turbine blade specially designed for high-performance aeroengines and industrial gas turbines. It is characterized by the fact that the entire blade is composed of a single crystal structure rather than polycrystalline material. This unique microstructure endows single-crystal turbine blades with excellent mechanical properties and heat resistance, enabling them to maintain efficient operation in extreme operating environments.

This report is a detailed and comprehensive analysis for global Single-crystal Turbine Blade market. Both quantitative and qualitative analyses are presented by manufacturers, 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 Single-crystal Turbine Blade market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2020-2031

Global Single-crystal Turbine Blade market size and forecasts by region and country, in

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consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2020-2031

Global Single-crystal Turbine Blade market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2020-2031

Global Single-crystal Turbine Blade market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2020-2025

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 Single-crystal Turbine 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 Single-crystal Turbine Blade 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 Rolls-Royce, Pratt & Whitney, MTU Aero Engines, PCC Airfoils, TEI, GF Casting Solutions, Sichuan Stone Refining Aviation, Jiangsu Yonghan Special Alloy Technology, Shenzhen Wedge Industry, etc.

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

Market Segmentation

Single-crystal Turbine Blade market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

Hollow Blade

Solid Blade

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Market segment by Application

- Aero-engine
- Industrial Gas Turbine
- Ship Propulsion System
- Others

Major players covered

- Rolls-Royce
- Pratt & Whitney
- MTU Aero Engines
- PCC Airfoils
- TEI
- GF Casting Solutions
- Sichuan Stone Refining Aviation
- Jiangsu Yonghan Special Alloy Technology
- Shenzhen Wedge Industry

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)

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

Chapter 1, to describe Single-crystal Turbine Blade product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Single-crystal Turbine Blade, with price, sales quantity, revenue, and global market share of Single-crystal Turbine Blade from 2020 to 2025.

Chapter 3, the Single-crystal Turbine Blade competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Single-crystal Turbine Blade breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025.and Single-crystal Turbine Blade market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Single-crystal Turbine Blade.

Chapter 14 and 15, to describe Single-crystal Turbine Blade sales channel, distributors, customers, research findings and conclusion.

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4 CONSUMPTION ANALYSIS BY REGION

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