

Global Single-crystal Turbine Blade Market Research Report 2026(Status and Outlook)

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Abstracts

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.

The global Single-crystal Turbine Blade market size was estimated at USD 479.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 6.50% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Single-crystal Turbine Blade market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Single-crystal Turbine Blade market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding

of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Single-crystal Turbine Blade market.

Global Single-crystal Turbine Blade Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

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 Segmentation (by Type)

Hollow Blade
Solid Blade

Market Segmentation (by Application)

Aero-engine
Industrial Gas Turbine
Ship Propulsion System
Others

Geographic Segmentation

North America (USA, Canada, Mexico)

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

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

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Single-crystal Turbine Blade Market
Overview of the regional outlook of the Single-crystal Turbine Blade Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division

standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Single-crystal Turbine Blade Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Single-crystal Turbine Blade, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Single-crystal Turbine Blade

1.2 Key Market Segments

1.2.1 Single-crystal Turbine Blade Segment by Type

1.2.2 Single-crystal Turbine Blade Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 SINGLE-CRYSTAL TURBINE BLADE MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Single-crystal Turbine Blade Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global Single-crystal Turbine Blade Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 SINGLE-CRYSTAL TURBINE BLADE MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Single-crystal Turbine Blade Product Life Cycle

3.3 Global Single-crystal Turbine Blade Sales by Manufacturers (2020-2025)

3.4 Global Single-crystal Turbine Blade Revenue Market Share by Manufacturers (2020-2025)

3.5 Single-crystal Turbine Blade Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Single-crystal Turbine Blade Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Single-crystal Turbine Blade Market Competitive Situation and Trends

3.8.1 Single-crystal Turbine Blade Market Concentration Rate

3.8.2 Global 5 and 10 Largest Single-crystal Turbine Blade Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 SINGLE-CRYSTAL TURBINE BLADE INDUSTRY CHAIN ANALYSIS

4.1 Single-crystal Turbine Blade Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF SINGLE-CRYSTAL TURBINE BLADE MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Single-crystal Turbine Blade Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Single-crystal Turbine Blade Market

5.7 ESG Ratings of Leading Companies

6 SINGLE-CRYSTAL TURBINE BLADE MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Single-crystal Turbine Blade Sales Market Share by Type (2020-2025)

6.3 Global Single-crystal Turbine Blade Market Size by Type (2020-2025)

6.4 Global Single-crystal Turbine Blade Price by Type (2020-2025)

7 SINGLE-CRYSTAL TURBINE BLADE MARKET SEGMENTATION BY

APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Single-crystal Turbine Blade Market Sales by Application (2020-2025)
- 7.3 Global Single-crystal Turbine Blade Market Size (M USD) by Application (2020-2025)
- 7.4 Global Single-crystal Turbine Blade Sales Growth Rate by Application (2020-2025)

8 SINGLE-CRYSTAL TURBINE BLADE MARKET SALES BY REGION

- 8.1 Global Single-crystal Turbine Blade Sales by Region
 - 8.1.1 Global Single-crystal Turbine Blade Sales by Region
 - 8.1.2 Global Single-crystal Turbine Blade Sales Market Share by Region
- 8.2 Global Single-crystal Turbine Blade Market Size by Region
 - 8.2.1 Global Single-crystal Turbine Blade Market Size by Region
 - 8.2.2 Global Single-crystal Turbine Blade Market Size by Region
- 8.3 North America
 - 8.3.1 North America Single-crystal Turbine Blade Sales by Country
 - 8.3.2 North America Single-crystal Turbine Blade Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Single-crystal Turbine Blade Sales by Country
 - 8.4.2 Europe Single-crystal Turbine Blade Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Single-crystal Turbine Blade Sales by Region
 - 8.5.2 Asia Pacific Single-crystal Turbine Blade Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America

- 8.6.1 South America Single-crystal Turbine Blade Sales by Country
- 8.6.2 South America Single-crystal Turbine Blade Market Size by Country
- 8.6.3 Brazil Market Overview
- 8.6.4 Argentina Market Overview
- 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Single-crystal Turbine Blade Sales by Region
 - 8.7.2 Middle East and Africa Single-crystal Turbine Blade Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 SINGLE-CRYSTAL TURBINE BLADE MARKET PRODUCTION BY REGION

- 9.1 Global Production of Single-crystal Turbine Blade by Region(2020-2025)
- 9.2 Global Single-crystal Turbine Blade Revenue Market Share by Region (2020-2025)
- 9.3 Global Single-crystal Turbine Blade Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Single-crystal Turbine Blade Production
 - 9.4.1 North America Single-crystal Turbine Blade Production Growth Rate (2020-2025)
 - 9.4.2 North America Single-crystal Turbine Blade Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Single-crystal Turbine Blade Production
 - 9.5.1 Europe Single-crystal Turbine Blade Production Growth Rate (2020-2025)
 - 9.5.2 Europe Single-crystal Turbine Blade Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Single-crystal Turbine Blade Production (2020-2025)
 - 9.6.1 Japan Single-crystal Turbine Blade Production Growth Rate (2020-2025)
 - 9.6.2 Japan Single-crystal Turbine Blade Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Single-crystal Turbine Blade Production (2020-2025)
 - 9.7.1 China Single-crystal Turbine Blade Production Growth Rate (2020-2025)
 - 9.7.2 China Single-crystal Turbine Blade Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Rolls-Royce

10.1.1 Rolls-Royce Basic Information

10.1.2 Rolls-Royce Single-crystal Turbine Blade Product Overview

10.1.3 Rolls-Royce Single-crystal Turbine Blade Product Market Performance

10.1.4 Rolls-Royce Business Overview

10.1.5 Rolls-Royce SWOT Analysis

10.1.6 Rolls-Royce Recent Developments

10.2 Pratt and Whitney

10.2.1 Pratt and Whitney Basic Information

10.2.2 Pratt and Whitney Single-crystal Turbine Blade Product Overview

10.2.3 Pratt and Whitney Single-crystal Turbine Blade Product Market Performance

10.2.4 Pratt and Whitney Business Overview

10.2.5 Pratt and Whitney SWOT Analysis

10.2.6 Pratt and Whitney Recent Developments

10.3 MTU Aero Engines

10.3.1 MTU Aero Engines Basic Information

10.3.2 MTU Aero Engines Single-crystal Turbine Blade Product Overview

10.3.3 MTU Aero Engines Single-crystal Turbine Blade Product Market Performance

10.3.4 MTU Aero Engines Business Overview

10.3.5 MTU Aero Engines SWOT Analysis

10.3.6 MTU Aero Engines Recent Developments

10.4 PCC Airfoils

10.4.1 PCC Airfoils Basic Information

10.4.2 PCC Airfoils Single-crystal Turbine Blade Product Overview

10.4.3 PCC Airfoils Single-crystal Turbine Blade Product Market Performance

10.4.4 PCC Airfoils Business Overview

10.4.5 PCC Airfoils Recent Developments

10.5 TEI

10.5.1 TEI Basic Information

10.5.2 TEI Single-crystal Turbine Blade Product Overview

10.5.3 TEI Single-crystal Turbine Blade Product Market Performance

10.5.4 TEI Business Overview

10.5.5 TEI Recent Developments

10.6 GF Casting Solutions

10.6.1 GF Casting Solutions Basic Information

10.6.2 GF Casting Solutions Single-crystal Turbine Blade Product Overview

10.6.3 GF Casting Solutions Single-crystal Turbine Blade Product Market Performance

10.6.4 GF Casting Solutions Business Overview

10.6.5 GF Casting Solutions Recent Developments

10.7 Sichuan Stone Refining Aviation

10.7.1 Sichuan Stone Refining Aviation Basic Information

10.7.2 Sichuan Stone Refining Aviation Single-crystal Turbine Blade Product Overview

10.7.3 Sichuan Stone Refining Aviation Single-crystal Turbine Blade Product Market

Performance

10.7.4 Sichuan Stone Refining Aviation Business Overview

10.7.5 Sichuan Stone Refining Aviation Recent Developments

10.8 Jiangsu Yonghan Special Alloy Technology

10.8.1 Jiangsu Yonghan Special Alloy Technology Basic Information

10.8.2 Jiangsu Yonghan Special Alloy Technology Single-crystal Turbine Blade

Product Overview

10.8.3 Jiangsu Yonghan Special Alloy Technology Single-crystal Turbine Blade

Product Market Performance

10.8.4 Jiangsu Yonghan Special Alloy Technology Business Overview

10.8.5 Jiangsu Yonghan Special Alloy Technology Recent Developments

10.9 Shenzhen Wedge Industry

10.9.1 Shenzhen Wedge Industry Basic Information

10.9.2 Shenzhen Wedge Industry Single-crystal Turbine Blade Product Overview

10.9.3 Shenzhen Wedge Industry Single-crystal Turbine Blade Product Market

Performance

10.9.4 Shenzhen Wedge Industry Business Overview

10.9.5 Shenzhen Wedge Industry Recent Developments

11 SINGLE-CRYSTAL TURBINE BLADE MARKET FORECAST BY REGION

11.1 Global Single-crystal Turbine Blade Market Size Forecast

11.2 Global Single-crystal Turbine Blade Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Single-crystal Turbine Blade Market Size Forecast by Country

11.2.3 Asia Pacific Single-crystal Turbine Blade Market Size Forecast by Region

11.2.4 South America Single-crystal Turbine Blade Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Single-crystal Turbine Blade by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Single-crystal Turbine Blade Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Single-crystal Turbine Blade by Type (2026-2035)

12.1.2 Global Single-crystal Turbine Blade Market Size Forecast by Type (2026-2035)

- 12.1.3 Global Forecasted Price of Single-crystal Turbine Blade by Type (2026-2035)
- 12.2 Global Single-crystal Turbine Blade Market Forecast by Application (2026-2035)
 - 12.2.1 Global Single-crystal Turbine Blade Sales (K MT) Forecast by Application
 - 12.2.2 Global Single-crystal Turbine Blade Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

- Table 1. Introduction of the Type
- Table 2. Introduction of the Application
- Table 3. Global Single-crystal Turbine Blade Market Size by Type (M USD)
- Table 4. Global Single-crystal Turbine Blade Market Size by Application
- Table 5. Single-crystal Turbine Blade Market Size Comparison by Region (M USD)
- Table 6. Global Single-crystal Turbine Blade Sales (K MT) by Manufacturers (2020-2025)
- Table 7. Global Single-crystal Turbine Blade Sales Market Share by Manufacturers (2020-2025)
- Table 8. Global Single-crystal Turbine Blade Revenue (M USD) by Manufacturers (2020-2025)
- Table 9. Global Single-crystal Turbine Blade Revenue Share by Manufacturers (2020-2025)
- Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Single-crystal Turbine Blade as of 2025)
- Table 11. Global Market Single-crystal Turbine Blade Average Price (USD/KG) of Key Manufacturers (2020-2025)
- Table 12. Manufacturers? Manufacturing Sites, Areas Served
- Table 13. Manufacturers? Product Type
- Table 14. Global Single-crystal Turbine Blade Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 15. Mergers & Acquisitions, Expansion Plans
- Table 16. Market Overview of Key Raw Materials
- Table 17. Midstream Market Analysis
- Table 18. Downstream Customer Analysis
- Table 19. Key Development Trends
- Table 20. Driving Factors
- Table 21. Single-crystal Turbine Blade Market Challenges
- Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026
- Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027
- Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026
- Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
- Table 26. Global Single-crystal Turbine Blade Sales by Type (K MT)
- Table 27. Global Single-crystal Turbine Blade Market Size by Type (M USD)

- Table 28. Global Single-crystal Turbine Blade Sales (K MT) by Type (2020-2025)
- Table 29. Global Single-crystal Turbine Blade Sales Market Share by Type (2020-2025)
- Table 30. Global Single-crystal Turbine Blade Market Size (M USD) by Type (2020-2025)
- Table 31. Global Single-crystal Turbine Blade Market Share by Type (2020-2025)
- Table 32. Global Single-crystal Turbine Blade Price (USD/KG) by Type (2020-2025)
- Table 33. Global Single-crystal Turbine Blade Sales (K MT) by Application
- Table 34. Global Single-crystal Turbine Blade Market Size by Application
- Table 35. Global Single-crystal Turbine Blade Sales by Application (2020-2025) & (K MT)
- Table 36. Global Single-crystal Turbine Blade Sales Market Share by Application (2020-2025)
- Table 37. Global Single-crystal Turbine Blade Market Size by Application (2020-2025) & (M USD)
- Table 38. Global Single-crystal Turbine Blade Market Share by Application (2020-2025)
- Table 39. Global Single-crystal Turbine Blade Sales Growth Rate by Application (2020-2025)
- Table 40. Global Single-crystal Turbine Blade Sales by Region (2020-2025) & (K MT)
- Table 41. Global Single-crystal Turbine Blade Sales Market Share by Region (2020-2025)
- Table 42. Global Single-crystal Turbine Blade Market Size by Region (2020-2025) & (M USD)
- Table 43. Global Single-crystal Turbine Blade Market Size by Region (2020-2025)
- Table 44. North America Single-crystal Turbine Blade Sales by Country (2020-2025) & (K MT)
- Table 45. North America Single-crystal Turbine Blade Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe Single-crystal Turbine Blade Sales by Country (2020-2025) & (K MT)
- Table 47. Europe Single-crystal Turbine Blade Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific Single-crystal Turbine Blade Sales by Region (2020-2025) & (K MT)
- Table 49. Asia Pacific Single-crystal Turbine Blade Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Single-crystal Turbine Blade Sales by Country (2020-2025) & (K MT)
- Table 51. South America Single-crystal Turbine Blade Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Single-crystal Turbine Blade Sales by Region

(2020-2025) & (K MT)

Table 53. Middle East and Africa Single-crystal Turbine Blade Market Size by Region (2020-2025) & (M USD)

Table 54. Global Single-crystal Turbine Blade Production (K MT) by Region(2020-2025)

Table 55. Global Single-crystal Turbine Blade Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Single-crystal Turbine Blade Revenue Market Share by Region (2020-2025)

Table 57. Global Single-crystal Turbine Blade Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 58. North America Single-crystal Turbine Blade Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 59. Europe Single-crystal Turbine Blade Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 60. Japan Single-crystal Turbine Blade Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 61. China Single-crystal Turbine Blade Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 62. Rolls-Royce Basic Information

Table 63. Rolls-Royce Single-crystal Turbine Blade Product Overview

Table 64. Rolls-Royce Single-crystal Turbine Blade Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 65. Rolls-Royce Business Overview

Table 66. Rolls-Royce SWOT Analysis

Table 67. Rolls-Royce Recent Developments

Table 68. Pratt and Whitney Basic Information

Table 69. Pratt and Whitney Single-crystal Turbine Blade Product Overview

Table 70. Pratt and Whitney Single-crystal Turbine Blade Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 71. Pratt and Whitney Business Overview

Table 72. Pratt and Whitney SWOT Analysis

Table 73. Pratt and Whitney Recent Developments

Table 74. MTU Aero Engines Basic Information

Table 75. MTU Aero Engines Single-crystal Turbine Blade Product Overview

Table 76. MTU Aero Engines Single-crystal Turbine Blade Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 77. MTU Aero Engines Business Overview

Table 78. MTU Aero Engines SWOT Analysis

Table 79. MTU Aero Engines Recent Developments

- Table 80. PCC Airfoils Basic Information
- Table 81. PCC Airfoils Single-crystal Turbine Blade Product Overview
- Table 82. PCC Airfoils Single-crystal Turbine Blade Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 83. PCC Airfoils Business Overview
- Table 84. PCC Airfoils Recent Developments
- Table 85. TEI Basic Information
- Table 86. TEI Single-crystal Turbine Blade Product Overview
- Table 87. TEI Single-crystal Turbine Blade Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 88. TEI Business Overview
- Table 89. TEI Recent Developments
- Table 90. GF Casting Solutions Basic Information
- Table 91. GF Casting Solutions Single-crystal Turbine Blade Product Overview
- Table 92. GF Casting Solutions Single-crystal Turbine Blade Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 93. GF Casting Solutions Business Overview
- Table 94. GF Casting Solutions Recent Developments
- Table 95. Sichuan Stone Refining Aviation Basic Information
- Table 96. Sichuan Stone Refining Aviation Single-crystal Turbine Blade Product Overview
- Table 97. Sichuan Stone Refining Aviation Single-crystal Turbine Blade Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 98. Sichuan Stone Refining Aviation Business Overview
- Table 99. Sichuan Stone Refining Aviation Recent Developments
- Table 100. Jiangsu Yonghan Special Alloy Technology Basic Information
- Table 101. Jiangsu Yonghan Special Alloy Technology Single-crystal Turbine Blade Product Overview
- Table 102. Jiangsu Yonghan Special Alloy Technology Single-crystal Turbine Blade Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 103. Jiangsu Yonghan Special Alloy Technology Business Overview
- Table 104. Jiangsu Yonghan Special Alloy Technology Recent Developments
- Table 105. Shenzhen Wedge Industry Basic Information
- Table 106. Shenzhen Wedge Industry Single-crystal Turbine Blade Product Overview
- Table 107. Shenzhen Wedge Industry Single-crystal Turbine Blade Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 108. Shenzhen Wedge Industry Business Overview
- Table 109. Shenzhen Wedge Industry Recent Developments
- Table 110. Global Single-crystal Turbine Blade Sales Forecast by Region (2026-2035)

& (K MT)

Table 111. Global Single-crystal Turbine Blade Market Size Forecast by Region (2026-2035) & (M USD)

Table 112. North America Single-crystal Turbine Blade Sales Forecast by Country (2026-2035) & (K MT)

Table 113. North America Single-crystal Turbine Blade Market Size Forecast by Country (2026-2035) & (M USD)

Table 114. Europe Single-crystal Turbine Blade Sales Forecast by Country (2026-2035) & (K MT)

Table 115. Europe Single-crystal Turbine Blade Market Size Forecast by Country (2026-2035) & (M USD)

Table 116. Asia Pacific Single-crystal Turbine Blade Sales Forecast by Region (2026-2035) & (K MT)

Table 117. Asia Pacific Single-crystal Turbine Blade Market Size Forecast by Region (2026-2035) & (M USD)

Table 118. South America Single-crystal Turbine Blade Sales Forecast by Country (2026-2035) & (K MT)

Table 119. South America Single-crystal Turbine Blade Market Size Forecast by Country (2026-2035) & (M USD)

Table 120. Middle East and Africa Single-crystal Turbine Blade Sales Forecast by Country (2026-2035) & (Units)

Table 121. Middle East and Africa Single-crystal Turbine Blade Market Size Forecast by Country (2026-2035) & (M USD)

Table 122. Global Single-crystal Turbine Blade Sales Forecast by Type (2026-2035) & (K MT)

Table 123. Global Single-crystal Turbine Blade Market Size Forecast by Type (2026-2035) & (M USD)

Table 124. Global Single-crystal Turbine Blade Price Forecast by Type (2026-2035) & (USD/KG)

Table 125. Global Single-crystal Turbine Blade Sales (K MT) Forecast by Application (2026-2035)

Table 126. Global Single-crystal Turbine Blade Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Single-crystal Turbine Blade
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Single-crystal Turbine Blade Market Size (M USD), 2025-2035
- Figure 5. Global Single-crystal Turbine Blade Market Size (M USD) (2020-2035)
- Figure 6. Global Single-crystal Turbine Blade Sales (K MT) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Single-crystal Turbine Blade Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Single-crystal Turbine Blade Product Life Cycle
- Figure 13. Single-crystal Turbine Blade Sales Share by Manufacturers in 2025
- Figure 14. Global Single-crystal Turbine Blade Revenue Share by Manufacturers in 2025
- Figure 15. Single-crystal Turbine Blade Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Single-crystal Turbine Blade Average Price (USD/KG) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Single-crystal Turbine Blade Revenue in 2025
- Figure 18. Industry Chain Map of Single-crystal Turbine Blade
- Figure 19. Global Single-crystal Turbine Blade Market PEST Analysis
- Figure 20. Global Single-crystal Turbine Blade Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Single-crystal Turbine Blade Market Share by Type
- Figure 27. Sales Market Share of Single-crystal Turbine Blade by Type (2020-2025)
- Figure 28. Sales Market Share of Single-crystal Turbine Blade by Type in 2025
- Figure 29. Market Share of Single-crystal Turbine Blade by Type (2020-2025)
- Figure 30. Market Share of Single-crystal Turbine Blade by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

- Figure 32. Global Single-crystal Turbine Blade Market Share by Application
- Figure 33. Global Single-crystal Turbine Blade Sales Market Share by Application (2020-2025)
- Figure 34. Global Single-crystal Turbine Blade Sales Market Share by Application in 2025
- Figure 35. Global Single-crystal Turbine Blade Market Share by Application (2020-2025)
- Figure 36. Global Single-crystal Turbine Blade Market Share by Application in 2025
- Figure 37. Global Single-crystal Turbine Blade Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Single-crystal Turbine Blade Sales Market Share by Region (2020-2025)
- Figure 39. Global Single-crystal Turbine Blade Market Size by Region (2020-2025)
- Figure 40. North America Single-crystal Turbine Blade Sales and Growth Rate (2020-2025) & (K MT)
- Figure 41. North America Single-crystal Turbine Blade Sales and Growth Rate (2020-2025) & (K MT)
- Figure 42. North America Single-crystal Turbine Blade Sales Market Share by Country in 2024
- Figure 43. North America Single-crystal Turbine Blade Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Single-crystal Turbine Blade Market Size by Country in 2024
- Figure 45. U.S. Single-crystal Turbine Blade Sales and Growth Rate (2020-2025) & (K MT)
- Figure 46. U.S. Single-crystal Turbine Blade Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Single-crystal Turbine Blade Sales (K MT) and Growth Rate (2020-2025)
- Figure 48. Canada Single-crystal Turbine Blade Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Single-crystal Turbine Blade Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Single-crystal Turbine Blade Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe Single-crystal Turbine Blade Sales and Growth Rate (2020-2025) & (K MT)
- Figure 52. Europe Single-crystal Turbine Blade Sales Market Share by Country in 2024
- Figure 53. Europe Single-crystal Turbine Blade Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 54. Europe Single-crystal Turbine Blade Market Size by Country in 2024

Figure 55. Germany Single-crystal Turbine Blade Sales and Growth Rate (2020-2025) & (K MT)

Figure 56. Germany Single-crystal Turbine Blade Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Single-crystal Turbine Blade Sales and Growth Rate (2020-2025) & (K MT)

Figure 58. France Single-crystal Turbine Blade Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Single-crystal Turbine Blade Sales and Growth Rate (2020-2025) & (K MT)

Figure 60. U.K. Single-crystal Turbine Blade Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Single-crystal Turbine Blade Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy Single-crystal Turbine Blade Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Single-crystal Turbine Blade Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain Single-crystal Turbine Blade Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Single-crystal Turbine Blade Sales and Growth Rate (K MT)

Figure 66. Asia Pacific Single-crystal Turbine Blade Sales Market Share by Region in 2024

Figure 67. Asia Pacific Single-crystal Turbine Blade Market Size by Region in 2024

Figure 68. China Single-crystal Turbine Blade Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China Single-crystal Turbine Blade Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Single-crystal Turbine Blade Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan Single-crystal Turbine Blade Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Single-crystal Turbine Blade Sales and Growth Rate (2020-2025) & (K MT)

Figure 73. South Korea Single-crystal Turbine Blade Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Single-crystal Turbine Blade Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India Single-crystal Turbine Blade Market Size and Growth Rate (2020-2025)

& (M USD)

Figure 76. Southeast Asia Single-crystal Turbine Blade Sales and Growth Rate (2020-2025) & (K MT)

Figure 77. Southeast Asia Single-crystal Turbine Blade Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Single-crystal Turbine Blade Sales and Growth Rate (K MT)

Figure 79. South America Single-crystal Turbine Blade Sales Market Share by Country in 2024

Figure 80. South America Single-crystal Turbine Blade Market Size and Growth Rate (M USD)

Figure 81. South America Single-crystal Turbine Blade Market Size by Country in 2024

Figure 82. Brazil Single-crystal Turbine Blade Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil Single-crystal Turbine Blade Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Single-crystal Turbine Blade Sales and Growth Rate (2020-2025) & (K MT)

Figure 85. Argentina Single-crystal Turbine Blade Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Single-crystal Turbine Blade Sales and Growth Rate (2020-2025) & (K MT)

Figure 87. Columbia Single-crystal Turbine Blade Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Single-crystal Turbine Blade Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa Single-crystal Turbine Blade Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Single-crystal Turbine Blade Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Single-crystal Turbine Blade Market Size by Region in 2024

Figure 92. Saudi Arabia Single-crystal Turbine Blade Sales and Growth Rate (2020-2025) & (K MT)

Figure 93. Saudi Arabia Single-crystal Turbine Blade Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Single-crystal Turbine Blade Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE Single-crystal Turbine Blade Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Single-crystal Turbine Blade Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt Single-crystal Turbine Blade Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Single-crystal Turbine Blade Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria Single-crystal Turbine Blade Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Single-crystal Turbine Blade Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa Single-crystal Turbine Blade Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Single-crystal Turbine Blade Production Market Share by Region (2020-2025)

Figure 103. North America Single-crystal Turbine Blade Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe Single-crystal Turbine Blade Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan Single-crystal Turbine Blade Production (K MT) Growth Rate (2020-2025)

Figure 106. China Single-crystal Turbine Blade Production (K MT) Growth Rate (2020-2025)

Figure 107. Global Single-crystal Turbine Blade Sales Forecast by Volume (2020-2035) & (K MT)

Figure 108. Global Single-crystal Turbine Blade Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Single-crystal Turbine Blade Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Single-crystal Turbine Blade Market Share Forecast by Type (2026-2035)

Figure 111. Global Single-crystal Turbine Blade Sales Forecast by Application (2026-2035)

Figure 112. Global Single-crystal Turbine Blade Market Share Forecast by Application (2026-2035)

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