

Global Single-Crystal Diamond Cutting Tool Competitive Landscape Professional Research Report 2025

<https://marketpublishers.com/r/S93C47A4C94FEN.html>

Date: June 2025

Pages: 165

Price: US\$ 3,500.00 (Single User License)

ID: S93C47A4C94FEN

Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Single-Crystal Diamond Cutting Tool market size will reach 33.79 Million USD in 2025 and is projected to reach 43.31 Million USD by 2032, with a CAGR of 3.61% (2025-2032). Notably, the China Single-Crystal Diamond Cutting Tool market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

A single-crystal diamond cutting tool is a high-precision tool made from a single diamond crystal, prized for its exceptional hardness, wear resistance, and ability to achieve ultra-fine finishes. These cutting tools are primarily used in industries requiring extreme precision, such as aerospace, automotive, electronics, and optics manufacturing. The single-crystal diamond's natural uniformity allows for extremely sharp cutting edges, enabling the machining of hard and brittle materials like ceramics, glass, and non-ferrous metals with minimal tool wear. They are especially valuable in applications demanding high surface quality and tight tolerances, such as creating optical lenses, mirrors, and intricate micro-components. The unique properties of single-crystal diamond cutting tools make them indispensable for advanced manufacturing processes where precision and durability are critical.

The major global manufacturers of Single-Crystal Diamond Cutting Tool include Tokyo Diamond, A.L.M.T. Corp., EISEN, Ogura, Halcyon, Gold Technic, Contour Fine Tooling,

Chardon Tool, Asahi Diamond Industrial, Shanghai Nagoya Precision Tools, Zhengzhou Diamond, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Single-Crystal Diamond Cutting Tool. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Single-Crystal Diamond Cutting Tool market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Single-Crystal Diamond Cutting Tool market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Single-Crystal Diamond Cutting Tool industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Single-Crystal Diamond Cutting Tool Include:

Tokyo Diamond

A.L.M.T. Corp.

EISEN

Ogura

Halcyon

Gold Technic

Contour Fine Tooling

Chardon Tool

Asahi Diamond Industrial

Shanghai Nagoya Precision Tools

Zhengzhou Diamond

Single-Crystal Diamond Cutting Tool Product Segment Include:

Synthetic Type

Natural Type

Single-Crystal Diamond Cutting Tool Product Application Include:

Optical, Lens and Resins

Electronics

Automotive

Medical and Aerospace

Others

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

Chapter 2: Global Single-Crystal Diamond Cutting Tool Industry PESTEL Analysis

Chapter 3: Global Single-Crystal Diamond Cutting Tool Industry Porter's Five Forces Analysis

Chapter 4: Global Single-Crystal Diamond Cutting Tool Major Regional Market Size (Revenue, Sales, Price) and Forecast Analysis

Chapter 5: Global Single-Crystal Diamond Cutting Tool Market Size and Forecast by Type and Application Analysis

Chapter 6: North America Single-Crystal Diamond Cutting Tool Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 7: Europe Single-Crystal Diamond Cutting Tool Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 8: China Single-Crystal Diamond Cutting Tool Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 9: APAC (Excl. China) Single-Crystal Diamond Cutting Tool Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 10: Latin America Single-Crystal Diamond Cutting Tool Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 11: Middle East and Africa Single-Crystal Diamond Cutting Tool Competitive

Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 12: Global Single-Crystal Diamond Cutting Tool Competitive Analysis of Key Manufacturers (Sales, Revenue, Market Share, Price, Regional Distribution and Industry Concentration)

Chapter 13: Key Company Profiles (Product Portfolio, Sales, Revenue, Price and Gross Margin)

Chapter 14: Industrial Chain Analysis, Include Raw Material Suppliers, Distributors and Customers

Chapter 15: Research Findings and Conclusion

Chapter 16: Methodology and Data Sources

Contents

1 SINGLE-CRYSTAL DIAMOND CUTTING TOOL MARKET OVERVIEW

- 1.1 Product Definition and Statistical Scope
- 1.2 Single-Crystal Diamond Cutting Tool Product by Type
 - 1.2.1 Synthetic Type
 - 1.2.2 Natural Type
- 1.3 Single-Crystal Diamond Cutting Tool Product by Application
 - 1.3.1 Optical, Lens and Resins
 - 1.3.2 Electronics
 - 1.3.3 Automotive
 - 1.3.4 Medical and Aerospace
 - 1.3.5 Others
- 1.4 Global Single-Crystal Diamond Cutting Tool Market Revenue and Sales Analysis
 - 1.4.1 Global Single-Crystal Diamond Cutting Tool Revenue Market Size Analysis (2020-2032)
 - 1.4.2 Global Single-Crystal Diamond Cutting Tool Sales Market Size Analysis (2020-2032)
 - 1.4.3 Global Single-Crystal Diamond Cutting Tool Market Sales Price Trend Analysis (2020-2032)
- 1.5 Single-Crystal Diamond Cutting Tool Industry Trends and Innovation
 - 1.5.1 Single-Crystal Diamond Cutting Tool Industry Trends and Innovation
 - 1.5.2 Single-Crystal Diamond Cutting Tool Market Drivers and Challenges

2 SINGLE-CRYSTAL DIAMOND CUTTING TOOL MARKET PESTEL ANALYSIS

- 2.1 Political Factors Analysis
- 2.2 Economic Factors Analysis
- 2.3 Social Factors Analysis
- 2.4 Technological Factors Analysis
- 2.5 Environmental Factors Analysis
- 2.6 Legal Factors Analysis

3 SINGLE-CRYSTAL DIAMOND CUTTING TOOL MARKET PORTER'S FIVE FORCES ANALYSIS

- 3.1 Competitive Rivalry
- 3.2 Threat of New Entrants

- 3.3 Bargaining Power of Suppliers
- 3.4 Bargaining Power of Buyers
- 3.5 Threat of Substitutes

4 GLOBAL SINGLE-CRYSTAL DIAMOND CUTTING TOOL MARKET ANALYSIS BY REGIONS

- 4.1 Single-Crystal Diamond Cutting Tool Overall Market: 2024 VS 2025 VS 2032
- 4.2 Global Single-Crystal Diamond Cutting Tool Revenue and Forecast Analysis (2020-2032)
 - 4.2.1 Global Single-Crystal Diamond Cutting Tool Revenue and Market Share by Region (2020-2025)
 - 4.2.2 Global Single-Crystal Diamond Cutting Tool Revenue and Market Share Forecast by Region (2026-2032)
- 4.3 Global Single-Crystal Diamond Cutting Tool Sales and Forecast Analysis (2020-2032)
 - 4.3.1 Global Single-Crystal Diamond Cutting Tool Sales and Market Share by Region (2020-2025)
 - 4.3.2 Global Single-Crystal Diamond Cutting Tool Sales and Market Share Forecast by Region (2026-2032)
- 4.4 Global Single-Crystal Diamond Cutting Tool Sales Price Trend Analysis (2020-2032)

5 GLOBAL SINGLE-CRYSTAL DIAMOND CUTTING TOOL MARKET SIZE BY TYPE AND APPLICATION

- 5.1 Global Single-Crystal Diamond Cutting Tool Market Size by Type
 - 5.1.1 Global Single-Crystal Diamond Cutting Tool Revenue and Forecast Analysis by Type (2020-2032)
 - 5.1.2 Global Single-Crystal Diamond Cutting Tool Sales and Forecast Analysis by Type (2020-2032)
- 5.2 Global Single-Crystal Diamond Cutting Tool Market Size by Application
 - 5.2.1 Global Single-Crystal Diamond Cutting Tool Revenue and Forecast Analysis by Application (2020-2032)
 - 5.2.2 Global Single-Crystal Diamond Cutting Tool Sales and Forecast Analysis by Application (2020-2032)

6 NORTH AMERICA

- 6.1 North America Single-Crystal Diamond Cutting Tool Market Size and Growth Rate

Analysis (2020-2032)

6.2 North America Key Manufacturers Analysis

6.3 North America Single-Crystal Diamond Cutting Tool Market Size by Type

6.3.1 North America Single-Crystal Diamond Cutting Tool Sales by Type (2020-2032)

6.3.2 North America Single-Crystal Diamond Cutting Tool Revenue by Type (2020-2032)

6.4 North America Single-Crystal Diamond Cutting Tool Market Size by Application

6.4.1 North America Single-Crystal Diamond Cutting Tool Sales by Application (2020-2032)

6.4.2 North America Single-Crystal Diamond Cutting Tool Revenue by Application (2020-2032)

6.5 North America Single-Crystal Diamond Cutting Tool Market Size by Country

6.5.1 US

6.5.2 Canada

7 EUROPE

7.1 Europe Single-Crystal Diamond Cutting Tool Market Size and Growth Rate Analysis (2020-2032)

7.2 Europe Key Manufacturers Analysis

7.3 Europe Single-Crystal Diamond Cutting Tool Market Size by Type

7.3.1 Europe Single-Crystal Diamond Cutting Tool Sales by Type (2020-2032)

7.3.2 Europe Single-Crystal Diamond Cutting Tool Revenue by Type (2020-2032)

7.4 Europe Single-Crystal Diamond Cutting Tool Market Size by Application

7.4.1 Europe Single-Crystal Diamond Cutting Tool Sales by Application (2020-2032)

7.4.2 Europe Single-Crystal Diamond Cutting Tool Revenue by Application (2020-2032)

7.5 Europe Single-Crystal Diamond Cutting Tool Market Size by Country

7.5.1 Germany

7.5.2 France

7.5.3 United Kingdom

7.5.4 Italy

7.5.5 Spain

7.5.6 Benelux

8 CHINA

8.1 China Single-Crystal Diamond Cutting Tool Market Size and Growth Rate Analysis (2020-2032)

8.2 China Key Manufacturers Analysis

8.3 China Single-Crystal Diamond Cutting Tool Market Size by Type

8.3.1 China Single-Crystal Diamond Cutting Tool Sales by Type (2020-2032)

8.3.2 China Single-Crystal Diamond Cutting Tool Revenue by Type (2020-2032)

8.4 China Single-Crystal Diamond Cutting Tool Market Size by Application

8.4.1 China Single-Crystal Diamond Cutting Tool Sales by Application (2020-2032)

8.4.2 China Single-Crystal Diamond Cutting Tool Revenue by Application (2020-2032)

9 APAC (EXCL. CHINA)

9.1 APAC (excl. China) Single-Crystal Diamond Cutting Tool Market Size and Growth Rate Analysis (2020-2032)

9.2 APAC (excl. China) Key Manufacturers Analysis

9.3 APAC (excl. China) Single-Crystal Diamond Cutting Tool Market Size by Type

9.3.1 APAC (excl. China) Single-Crystal Diamond Cutting Tool Sales by Type (2020-2032)

9.3.2 APAC (excl. China) Single-Crystal Diamond Cutting Tool Revenue by Type (2020-2032)

9.4 APAC (excl. China) Single-Crystal Diamond Cutting Tool Market Size by Application

9.4.1 APAC (excl. China) Single-Crystal Diamond Cutting Tool Sales by Application (2020-2032)

9.4.2 APAC (excl. China) Single-Crystal Diamond Cutting Tool Revenue by Application (2020-2032)

9.5 APAC (excl. China) Single-Crystal Diamond Cutting Tool Market Size by Country

9.5.1 Japan

9.5.2 South Korea

9.5.3 India

9.5.4 Australia

9.5.5 Southeast Asia

10 LATIN AMERICA

10.1 Latin America Single-Crystal Diamond Cutting Tool Market Size and Growth Rate Analysis (2020-2032)

10.2 Latin America Key Manufacturers Analysis

10.3 Latin America Single-Crystal Diamond Cutting Tool Market Size by Type

10.3.1 Latin America Single-Crystal Diamond Cutting Tool Sales by Type (2020-2032)

10.3.2 Latin America Single-Crystal Diamond Cutting Tool Revenue by Type (2020-2032)

10.4 Latin America Single-Crystal Diamond Cutting Tool Market Size by Application

10.4.1 Latin America Single-Crystal Diamond Cutting Tool Sales by Application (2020-2032)

10.4.2 Latin America Single-Crystal Diamond Cutting Tool Revenue by Application (2020-2032)

10.5 Latin America Single-Crystal Diamond Cutting Tool Market Size by Country

10.6 Latin America Single-Crystal Diamond Cutting Tool Market Size by Country

10.6.1 Mexico

10.6.2 Brazil

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Single-Crystal Diamond Cutting Tool Market Size and Growth Rate Analysis (2020-2032)

11.2 Middle East & Africa Key Manufacturers Analysis

11.3 Middle East & Africa Single-Crystal Diamond Cutting Tool Market Size by Type

11.3.1 Middle East & Africa Single-Crystal Diamond Cutting Tool Sales by Type (2020-2032)

11.3.2 Middle East & Africa Single-Crystal Diamond Cutting Tool Revenue by Type (2020-2032)

11.4 Middle East & Africa Single-Crystal Diamond Cutting Tool Market Size by Application

11.4.1 Middle East & Africa Single-Crystal Diamond Cutting Tool Sales by Application (2020-2032)

11.4.2 Middle East & Africa Single-Crystal Diamond Cutting Tool Revenue by Application (2020-2032)

11.5 Middle East Single-Crystal Diamond Cutting Tool Market Size by Country

11.5.1 Saudi Arabia

11.5.2 South Africa

12 COMPETITION BY MANUFACTURERS

12.1 Global Single-Crystal Diamond Cutting Tool Market Sales, Revenue and Price by Key Manufacturers (2021-2025)

12.1.1 Global Single-Crystal Diamond Cutting Tool Market Sales by Key Manufacturers (2021-2025)

12.1.2 Global Single-Crystal Diamond Cutting Tool Market Revenue by Key Manufacturers (2021-2025)

12.1.3 Global Single-Crystal Diamond Cutting Tool Average Sales Price by

Manufacturers (2021-2025)

12.2 Single-Crystal Diamond Cutting Tool Competitive Landscape Analysis and Market Dynamic

12.2.1 Single-Crystal Diamond Cutting Tool Competitive Landscape Analysis

12.2.2 Global Key Manufacturers Headquarter Location and Key Area Sales

12.2.3 Market Dynamic

13 KEY COMPANIES ANALYSIS

13.1 Tokyo Diamond

13.1.1 Tokyo Diamond Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.1.2 Tokyo Diamond Single-Crystal Diamond Cutting Tool Product Portfolio

13.1.3 Tokyo Diamond Single-Crystal Diamond Cutting Tool Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.2 A.L.M.T. Corp.

13.2.1 A.L.M.T. Corp. Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.2.2 A.L.M.T. Corp. Single-Crystal Diamond Cutting Tool Product Portfolio

13.2.3 A.L.M.T. Corp. Single-Crystal Diamond Cutting Tool Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.3 EISEN

13.3.1 EISEN Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.3.2 EISEN Single-Crystal Diamond Cutting Tool Product Portfolio

13.3.3 EISEN Single-Crystal Diamond Cutting Tool Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.4 Ogura

13.4.1 Ogura Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.4.2 Ogura Single-Crystal Diamond Cutting Tool Product Portfolio

13.4.3 Ogura Single-Crystal Diamond Cutting Tool Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.5 Halcyon

13.5.1 Halcyon Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.5.2 Halcyon Single-Crystal Diamond Cutting Tool Product Portfolio

13.5.3 Halcyon Single-Crystal Diamond Cutting Tool Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.6 Gold Technic

13.6.1 Gold Technic Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.6.2 Gold Technic Single-Crystal Diamond Cutting Tool Product Portfolio

13.6.3 Gold Technic Single-Crystal Diamond Cutting Tool Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.7 Contour Fine Tooling

13.7.1 Contour Fine Tooling Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.7.2 Contour Fine Tooling Single-Crystal Diamond Cutting Tool Product Portfolio

13.7.3 Contour Fine Tooling Single-Crystal Diamond Cutting Tool Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.8 Chardon Tool

13.8.1 Chardon Tool Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.8.2 Chardon Tool Single-Crystal Diamond Cutting Tool Product Portfolio

13.8.3 Chardon Tool Single-Crystal Diamond Cutting Tool Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.9 Asahi Diamond Industrial

13.9.1 Asahi Diamond Industrial Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.9.2 Asahi Diamond Industrial Single-Crystal Diamond Cutting Tool Product Portfolio

13.9.3 Asahi Diamond Industrial Single-Crystal Diamond Cutting Tool Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.10 Shanghai Nagoya Precision Tools

13.10.1 Shanghai Nagoya Precision Tools Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.10.2 Shanghai Nagoya Precision Tools Single-Crystal Diamond Cutting Tool Product Portfolio

13.10.3 Shanghai Nagoya Precision Tools Single-Crystal Diamond Cutting Tool Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.11 Zhengzhou Diamond

13.11.1 Zhengzhou Diamond Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.11.2 Zhengzhou Diamond Single-Crystal Diamond Cutting Tool Product Portfolio

13.11.3 Zhengzhou Diamond Single-Crystal Diamond Cutting Tool Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

14 INDUSTRY CHAIN ANALYSIS

14.1 Single-Crystal Diamond Cutting Tool Industry Chain Analysis

14.2 Single-Crystal Diamond Cutting Tool Industry Raw Material and Suppliers Analysis

14.2.1 Single-Crystal Diamond Cutting Tool Key Raw Material Supply Analysis

14.2.2 Raw Material Suppliers and Contact Information

14.3 Single-Crystal Diamond Cutting Tool Typical Downstream Customers

14.4 Single-Crystal Diamond Cutting Tool Sales Channel Analysis

15 RESEARCH FINDINGS AND CONCLUSION

16 METHODOLOGY AND DATA SOURCE

16.1 Methodology/Research Approach

16.2 Research Scope

16.3 Benchmarks and Assumptions

16.4 Data Source

16.4.1 Primary Sources

16.4.2 Secondary Sources

16.5 Data Cross Validation

16.6 Disclaimer

List Of Tables

LIST OF TABLES

Table 1: Global Single-Crystal Diamond Cutting Tool Market Size Growth Rate by Type, 2024 VS 2025 VS 2032 (US\$ Million)

Table 2: Global Single-Crystal Diamond Cutting Tool Market Size Growth Rate by Application, 2024 VS 2025 VS 2032 (US\$ Million)

Table 3: Single-Crystal Diamond Cutting Tool Industry Development Status

Table 4: Single-Crystal Diamond Cutting Tool Industry Development Trends

Table 5: Global Single-Crystal Diamond Cutting Tool Market Size by Region in US\$ Million: 2024 VS 2025 VS 2032

Table 6: Global Single-Crystal Diamond Cutting Tool Revenue by Region (2020-2025) & (US\$ Million)

Table 7: Global Single-Crystal Diamond Cutting Tool Revenue Market Share by Region (2020-2025)

Table 8: Global Single-Crystal Diamond Cutting Tool Revenue Forecast by Region (2026-2032) & (US\$ Million)

Table 9: Global Single-Crystal Diamond Cutting Tool Revenue Market Share Forecast by Region (2026-2032)

Table 10: Global Single-Crystal Diamond Cutting Tool Sales by Region (2020-2025) & (K Units)

Table 11: Global Single-Crystal Diamond Cutting Tool Sales Market Share by Region (2020-2025)

Table 12: Global Single-Crystal Diamond Cutting Tool Sales Forecast by Region (2026-2032) & (K Units)

Table 13: Global Single-Crystal Diamond Cutting Tool Sales Market Share Forecast by Region (2026-2032)

Table 14: Global Single-Crystal Diamond Cutting Tool Revenue Analysis by Type (2020-2025) & (US\$ Million)

Table 15: Global Single-Crystal Diamond Cutting Tool Revenue Analysis Forecast by Type (2026-2032) & (US\$ Million)

Table 16: Global Single-Crystal Diamond Cutting Tool Sales Analysis by Type (2020-2025) & (K Units)

Table 17: Global Single-Crystal Diamond Cutting Tool Sales Analysis Forecast by Type (2026-2032) & (K Units)

Table 18: Global Single-Crystal Diamond Cutting Tool Revenue Analysis by Application (2020-2025) & (US\$ Million)

Table 19: Global Single-Crystal Diamond Cutting Tool Revenue Analysis Forecast by

Application (2026-2032) & (US\$ Million)

Table 20: Global Single-Crystal Diamond Cutting Tool Sales Analysis by Application (2020-2025) & (K Units)

Table 21: Global Single-Crystal Diamond Cutting Tool Sales Analysis Forecast by Application (2026-2032) & (K Units)

Table 22: Key Single-Crystal Diamond Cutting Tool Players in North America

Table 23: North America Single-Crystal Diamond Cutting Tool Sales by Type (2020-2025) & (K Units)

Table 24: North America Single-Crystal Diamond Cutting Tool Sales by Type (2026-2032) & (K Units)

Table 25: North America Single-Crystal Diamond Cutting Tool Revenue by Type (2020-2025) & (US\$ Million)

Table 26: North America Single-Crystal Diamond Cutting Tool Revenue by Type (2026-2032) & (US\$ Million)

Table 27: North America Single-Crystal Diamond Cutting Tool Sales by Application (2020-2025) & (K Units)

Table 28: North America Single-Crystal Diamond Cutting Tool Sales by Application (2026-2032) & (K Units)

Table 29: North America Single-Crystal Diamond Cutting Tool Revenue by Application (2020-2025) & (US\$ Million)

Table 30: North America Single-Crystal Diamond Cutting Tool Revenue by Application (2026-2032) & (US\$ Million)

Table 31: North America Single-Crystal Diamond Cutting Tool Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 32: North America Single-Crystal Diamond Cutting Tool Revenue Market Size by Country (2026-2032) & (US\$ Million)

Table 33: North America Single-Crystal Diamond Cutting Tool Sales Market Size by Country (2020-2025) & (K Units)

Table 34: North America Single-Crystal Diamond Cutting Tool Sales Market Size by Country (2026-2032) & (K Units)

Table 35: Key Single-Crystal Diamond Cutting Tool Players in Europe

Table 36: Europe Single-Crystal Diamond Cutting Tool Sales by Type (2020-2025) & (K Units)

Table 37: Europe Single-Crystal Diamond Cutting Tool Sales by Type (2026-2032) & (K Units)

Table 38: Europe Single-Crystal Diamond Cutting Tool Revenue by Type (2020-2025) & (US\$ Million)

Table 39: Europe Single-Crystal Diamond Cutting Tool Revenue by Type (2026-2032) & (US\$ Million)

- Table 40: Europe Single-Crystal Diamond Cutting Tool Sales by Application (2020-2025) & (K Units)
- Table 41: Europe Single-Crystal Diamond Cutting Tool Sales by Application (2026-2032) & (K Units)
- Table 42: Europe Single-Crystal Diamond Cutting Tool Revenue by Application (2020-2025) & (US\$ Million)
- Table 43: Europe Single-Crystal Diamond Cutting Tool Revenue by Application (2026-2032) & (US\$ Million)
- Table 44: Europe Single-Crystal Diamond Cutting Tool Revenue Market Size by Country (2020-2025) & (US\$ Million)
- Table 45: Europe Single-Crystal Diamond Cutting Tool Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)
- Table 46: Europe Single-Crystal Diamond Cutting Tool Sales Market Size by Country (2020-2025) & (K Units)
- Table 47: Europe Single-Crystal Diamond Cutting Tool Sales Market Size Forecast by Country (2026-2032) & (K Units)
- Table 48: Key Single-Crystal Diamond Cutting Tool Players in China
- Table 49: China Single-Crystal Diamond Cutting Tool Sales by Type (2020-2025) & (K Units)
- Table 50: China Single-Crystal Diamond Cutting Tool Sales by Type (2026-2032) & (K Units)
- Table 51: China Single-Crystal Diamond Cutting Tool Revenue by Type (2020-2025) & (US\$ Million)
- Table 52: China Single-Crystal Diamond Cutting Tool Revenue by Type (2026-2032) & (US\$ Million)
- Table 53: China Single-Crystal Diamond Cutting Tool Sales by Application (2020-2025) & (K Units)
- Table 54: China Single-Crystal Diamond Cutting Tool Sales by Application (2026-2032) & (K Units)
- Table 55: China Single-Crystal Diamond Cutting Tool Revenue by Application (2020-2025) & (US\$ Million)
- Table 56: China Single-Crystal Diamond Cutting Tool Revenue by Application (2026-2032) & (US\$ Million)
- Table 57: Key Single-Crystal Diamond Cutting Tool Players in APAC (excl. China)
- Table 58: APAC (excl. China) Single-Crystal Diamond Cutting Tool Sales by Type (2020-2025) & (K Units)
- Table 59: APAC (excl. China) Single-Crystal Diamond Cutting Tool Sales by Type (2026-2032) & (K Units)
- Table 60: APAC (excl. China) Single-Crystal Diamond Cutting Tool Revenue by Type

(2020-2025) & (US\$ Million)

Table 61: APAC (excl. China) Single-Crystal Diamond Cutting Tool Revenue by Type (2026-2032) & (US\$ Million)

Table 62: APAC (excl. China) Single-Crystal Diamond Cutting Tool Sales by Application (2020-2025) & (K Units)

Table 63: APAC (excl. China) Single-Crystal Diamond Cutting Tool Sales by Application (2026-2032) & (K Units)

Table 64: APAC (excl. China) Single-Crystal Diamond Cutting Tool Revenue by Application (2020-2025) & (US\$ Million)

Table 65: APAC (excl. China) Single-Crystal Diamond Cutting Tool Revenue by Application (2026-2032) & (US\$ Million)

Table 66: APAC (excl. China) Single-Crystal Diamond Cutting Tool Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 67: APAC (excl. China) Single-Crystal Diamond Cutting Tool Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 68: APAC (excl. China) Single-Crystal Diamond Cutting Tool Sales Market Size by Country (2020-2025) & (K Units)

Table 69: APAC (excl. China) Single-Crystal Diamond Cutting Tool Sales Market Size Forecast by Country (2026-2032) & (K Units)

Table 70: Key Single-Crystal Diamond Cutting Tool Players in Latin America

Table 71: Latin America Single-Crystal Diamond Cutting Tool Sales by Type (2020-2025) & (K Units)

Table 72: Latin America Single-Crystal Diamond Cutting Tool Sales by Type (2026-2032) & (K Units)

Table 73: Latin America Single-Crystal Diamond Cutting Tool Revenue by Type (2020-2025) & (US\$ Million)

Table 74: Latin America Single-Crystal Diamond Cutting Tool Revenue by Type (2026-2032) & (US\$ Million)

Table 75: Latin America Single-Crystal Diamond Cutting Tool Sales by Application (2020-2025) & (K Units)

Table 76: Latin America Single-Crystal Diamond Cutting Tool Sales by Application (2026-2032) & (K Units)

Table 77: Latin America Single-Crystal Diamond Cutting Tool Revenue by Application (2020-2025) & (US\$ Million)

Table 78: Latin America Single-Crystal Diamond Cutting Tool Revenue by Application (2026-2032) & (US\$ Million)

Table 79: Latin America Single-Crystal Diamond Cutting Tool Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 80: Latin America Single-Crystal Diamond Cutting Tool Revenue Market Size

Forecast by Country (2026-2032) & (US\$ Million)

Table 81: Latin America Single-Crystal Diamond Cutting Tool Sales Market Size by Country (2020-2025) & (K Units)

Table 82: Latin America Single-Crystal Diamond Cutting Tool Sales Market Size Forecast by Country (2026-2032) & (K Units)

Table 83: Key Single-Crystal Diamond Cutting Tool Players in Middle East & Africa

Table 84: Middle East & Africa Single-Crystal Diamond Cutting Tool Sales by Type (2020-2025) & (K Units)

Table 85: Middle East & Africa Single-Crystal Diamond Cutting Tool Sales by Type (2026-2032) & (K Units)

Table 86: Middle East & Africa Single-Crystal Diamond Cutting Tool Revenue by Type (2020-2025) & (US\$ Million)

Table 87: Middle East & Africa Single-Crystal Diamond Cutting Tool Revenue by Type (2026-2032) & (US\$ Million)

Table 88: Middle East & Africa Single-Crystal Diamond Cutting Tool Sales by Application (2020-2025) & (K Units)

Table 89: Middle East & Africa Single-Crystal Diamond Cutting Tool Sales by Application (2026-2032) & (K Units)

Table 90: Middle East & Africa Single-Crystal Diamond Cutting Tool Revenue by Application (2020-2025) & (US\$ Million)

Table 91: Middle East & Africa Single-Crystal Diamond Cutting Tool Revenue by Application (2026-2032) & (US\$ Million)

Table 92: Middle East & Africa Single-Crystal Diamond Cutting Tool Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 93: Middle East & Africa Single-Crystal Diamond Cutting Tool Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 94: Middle East & Africa Single-Crystal Diamond Cutting Tool Sales Market Size by Country (2020-2025) & (K Units)

Table 95: Middle East & Africa Single-Crystal Diamond Cutting Tool Sales Market Size Forecast by Country (2026-2032) & (K Units)

Table 96: Global Single-Crystal Diamond Cutting Tool Market Sales by Key Manufacturers (2021-2025) & (K Units)

Table 97: Global Single-Crystal Diamond Cutting Tool Sales Market Share by Key Manufacturers (2021-2025)

Table 98: Global Single-Crystal Diamond Cutting Tool Market Revenue by Key Manufacturers (2021-2025) & (US\$ Million)

Table 99: Global Single-Crystal Diamond Cutting Tool Revenue Market Share by Key Manufacturers (2021-2025)

Table 100: Global Average Sales Price by Manufacturers (2021-2025) & (USD/Unit)

- Table 101: Global Key Manufacturers Headquarter Location and Key Area Sales
- Table 102: Market Mergers & Acquisitions, Expansion
- Table 103: Tokyo Diamond Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
- Table 104: Tokyo Diamond Single-Crystal Diamond Cutting Tool Product Portfolio
- Table 105: Tokyo Diamond Single-Crystal Diamond Cutting Tool Revenue (US\$ Million), Sales (K Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)
- Table 106: A.L.M.T. Corp. Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
- Table 107: A.L.M.T. Corp. Single-Crystal Diamond Cutting Tool Product Portfolio
- Table 108: A.L.M.T. Corp. Single-Crystal Diamond Cutting Tool Revenue (US\$ Million), Sales (K Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)
- Table 109: EISEN Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
- Table 110: EISEN Single-Crystal Diamond Cutting Tool Product Portfolio
- Table 111: EISEN Single-Crystal Diamond Cutting Tool Revenue (US\$ Million), Sales (K Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)
- Table 112: Ogura Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
- Table 113: Ogura Single-Crystal Diamond Cutting Tool Product Portfolio
- Table 114: Ogura Single-Crystal Diamond Cutting Tool Revenue (US\$ Million), Sales (K Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)
- Table 115: Halcyon Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
- Table 116: Halcyon Single-Crystal Diamond Cutting Tool Product Portfolio
- Table 117: Halcyon Single-Crystal Diamond Cutting Tool Revenue (US\$ Million), Sales (K Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)
- Table 118: Gold Technic Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
- Table 119: Gold Technic Single-Crystal Diamond Cutting Tool Product Portfolio
- Table 120: Gold Technic Single-Crystal Diamond Cutting Tool Revenue (US\$ Million), Sales (K Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)
- Table 121: Contour Fine Tooling Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
- Table 122: Contour Fine Tooling Single-Crystal Diamond Cutting Tool Product Portfolio
- Table 123: Contour Fine Tooling Single-Crystal Diamond Cutting Tool Revenue (US\$ Million), Sales (K Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)
- Table 124: Chardon Tool Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 125: Chardon Tool Single-Crystal Diamond Cutting Tool Product Portfolio

Table 126: Chardon Tool Single-Crystal Diamond Cutting Tool Revenue (US\$ Million), Sales (K Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 127: Asahi Diamond Industrial Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 128: Asahi Diamond Industrial Single-Crystal Diamond Cutting Tool Product Portfolio

Table 129: Asahi Diamond Industrial Single-Crystal Diamond Cutting Tool Revenue (US\$ Million), Sales (K Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 130: Shanghai Nagoya Precision Tools Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 131: Shanghai Nagoya Precision Tools Single-Crystal Diamond Cutting Tool Product Portfolio

Table 132: Shanghai Nagoya Precision Tools Single-Crystal Diamond Cutting Tool Revenue (US\$ Million), Sales (K Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 133: Zhengzhou Diamond Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 134: Zhengzhou Diamond Single-Crystal Diamond Cutting Tool Product Portfolio

Table 135: Zhengzhou Diamond Single-Crystal Diamond Cutting Tool Revenue (US\$ Million), Sales (K Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 136: Upstream Key Raw Material Price List

Table 137: Single-Crystal Diamond Cutting Tool Raw Material Suppliers and Contact Information

Table 138: Single-Crystal Diamond Cutting Tool Typical Customer List

Table 139: Single-Crystal Diamond Cutting Tool Distributors List

List Of Figures

LIST OF FIGURES

Figure 1: Single-Crystal Diamond Cutting Tool Product Pictures

Figure 2: Synthetic Type Picture Scope

Figure 3: Natural Type Picture Scope

Figure 4: Optical, Lens and Resins Picture Scope

Figure 5: Electronics Picture Scope

Figure 6: Automotive Picture Scope

Figure 7: Medical and Aerospace Picture Scope

Figure 8: Others Picture Scope

Figure 9: Global Single-Crystal Diamond Cutting Tool Market Size Analysis: 2024 VS 2025 VS 2032 (US\$ Million)

Figure 10: Global Single-Crystal Diamond Cutting Tool Market Revenue and Growth Rate Analysis: (2020-2032) & (US\$ Million)

Figure 11: Global Single-Crystal Diamond Cutting Tool Market Sales and Growth Rate Analysis (2020-2032) & (K Units)

Figure 12: Global Single-Crystal Diamond Cutting Tool Market Price Trend Analysis (2020-2032) & (USD/Unit)

Figure 13: Global Single-Crystal Diamond Cutting Tool Market Size by Region (2020-2032) & (US\$ Million)

Figure 14: Global Single-Crystal Diamond Cutting Tool Market Share Scenario by Region in Percentage: 2025 Versus 2032

Figure 15: Global Single-Crystal Diamond Cutting Tool Sales Price by Region (2020-2032) & (K Units)

Figure 16: North America Single-Crystal Diamond Cutting Tool Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 17: North America Single-Crystal Diamond Cutting Tool Revenue Market Share by Players in 2024

Figure 18: North America Single-Crystal Diamond Cutting Tool Sales Market Share by Type (2020-2032)

Figure 19: North America Single-Crystal Diamond Cutting Tool Revenue Market Share by Type (2020-2032)

Figure 20: North America Single-Crystal Diamond Cutting Tool Sales Market Share by Application (2020-2032)

Figure 21: North America Single-Crystal Diamond Cutting Tool Revenue Market Share by Application (2020-2032)

Figure 22: US Single-Crystal Diamond Cutting Tool Revenue (2020-2032) & (US\$

Million)

Figure 23:Canada Single-Crystal Diamond Cutting Tool Revenue (2020-2032) & (US\$ Million)

Figure 24:Europe Single-Crystal Diamond Cutting Tool Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 25:Europe Single-Crystal Diamond Cutting Tool Revenue Market Share by Players in 2024

Figure 26:Europe Single-Crystal Diamond Cutting Tool Sales Market Share by Type (2020-2032)

Figure 27:Europe Single-Crystal Diamond Cutting Tool Revenue Market Share by Type (2020-2032)

Figure 28:Europe Single-Crystal Diamond Cutting Tool Sales Market Share by Application (2020-2032)

Figure 29:Europe Single-Crystal Diamond Cutting Tool Revenue Market Share by Application (2020-2032)

Figure 30:Germany Single-Crystal Diamond Cutting Tool Revenue (2020-2032) & (US\$ Million)

Figure 31:France Single-Crystal Diamond Cutting Tool Revenue (2020-2032) & (US\$ Million)

Figure 32:United Kingdom Single-Crystal Diamond Cutting Tool Revenue (2020-2032) & (US\$ Million)

Figure 33:Italy Single-Crystal Diamond Cutting Tool Revenue (2020-2032) & (US\$ Million)

Figure 34:Spain Single-Crystal Diamond Cutting Tool Revenue (2020-2032) & (US\$ Million)

Figure 35:Benelux Single-Crystal Diamond Cutting Tool Revenue (2020-2032) & (US\$ Million)

Figure 36:China Single-Crystal Diamond Cutting Tool Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 37:China Single-Crystal Diamond Cutting Tool Revenue Market Share by Players in 2024

Figure 38:China Single-Crystal Diamond Cutting Tool Sales Market Share by Type (2020-2032)

Figure 39:China Single-Crystal Diamond Cutting Tool Revenue Market Share by Type (2020-2032)

Figure 40:China Single-Crystal Diamond Cutting Tool Sales Market Share by Application (2020-2032)

Figure 41:China Single-Crystal Diamond Cutting Tool Revenue Market Share by Application (2020-2032)

Figure 42:APAC (excl. China) Single-Crystal Diamond Cutting Tool Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 43:APAC (excl. China) Single-Crystal Diamond Cutting Tool Revenue Market Share by Players in 2024

Figure 44:APAC (excl. China) Single-Crystal Diamond Cutting Tool Sales Market Share by Type (2020-2032)

Figure 45:APAC (excl. China) Single-Crystal Diamond Cutting Tool Revenue Market Share by Type (2020-2032)

Figure 46:APAC (excl. China) Single-Crystal Diamond Cutting Tool Sales Market Share by Application (2020-2032)

Figure 47:APAC (excl. China) Single-Crystal Diamond Cutting Tool Revenue Market Share by Application (2020-2032)

Figure 48:Japan Single-Crystal Diamond Cutting Tool Revenue (2020-2032) & (US\$ Million)

Figure 49:South Korea Single-Crystal Diamond Cutting Tool Revenue (2020-2032) & (US\$ Million)

Figure 50:India Single-Crystal Diamond Cutting Tool Revenue (2020-2032) & (US\$ Million)

Figure 51:Australia Single-Crystal Diamond Cutting Tool Revenue (2020-2032) & (US\$ Million)

Figure 52:Southeast Asia Single-Crystal Diamond Cutting Tool Revenue (2020-2032) & (US\$ Million)

Figure 53:Latin America Single-Crystal Diamond Cutting Tool Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 54:Latin America Single-Crystal Diamond Cutting Tool Revenue Market Share by Players in 2024

Figure 55:Latin America Single-Crystal Diamond Cutting Tool Sales Market Share by Type (2020-2032)

Figure 56:Latin America Single-Crystal Diamond Cutting Tool Revenue Market Share by Type (2020-2032)

Figure 57:Latin America Single-Crystal Diamond Cutting Tool Sales Market Share by Application (2020-2032)

Figure 58:Latin America Single-Crystal Diamond Cutting Tool Revenue Market Share by Application (2020-2032)

Figure 59:Mexico Single-Crystal Diamond Cutting Tool Revenue (2020-2032) & (US\$ Million)

Figure 60:Brazil Single-Crystal Diamond Cutting Tool Revenue (2020-2032) & (US\$ Million)

Figure 61:Middle East & Africa Single-Crystal Diamond Cutting Tool Market Size and

Growth Rate (2020-2032) & (US\$ Million)

Figure 62: Middle East & Africa Single-Crystal Diamond Cutting Tool Revenue Market Share by Players in 2024

Figure 63: Middle East & Africa Single-Crystal Diamond Cutting Tool Sales Market Share by Type (2020-2032)

Figure 64: Middle East & Africa Single-Crystal Diamond Cutting Tool Revenue Market Share by Type (2020-2032)

Figure 65: Middle East & Africa Single-Crystal Diamond Cutting Tool Sales Market Share by Application (2020-2032)

Figure 66: Middle East & Africa Single-Crystal Diamond Cutting Tool Revenue Market Share by Application (2020-2032)

Figure 67: Saudi Arabia Single-Crystal Diamond Cutting Tool Revenue (2020-2032) & (US\$ Million)

Figure 68: South Africa Single-Crystal Diamond Cutting Tool Revenue (2020-2032) & (US\$ Million)

Figure 69: Global Single-Crystal Diamond Cutting Tool Sales Market Share by Key Manufacturers in 2024

Figure 70: Global Single-Crystal Diamond Cutting Tool Revenue Market Share by Key Manufacturers in 2024

Figure 71: Global Single-Crystal Diamond Cutting Tool Industry Competition Landscape

Figure 72: Single-Crystal Diamond Cutting Tool Industry Chain Analysis

Figure 73: Bottom-Up and Top-Down Research Methods

Figure 74: Key Interview Objectives

Figure 75: Data Cross Validation

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