

# Global Diamond-Like Carbon Film Coating for Knives Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global Diamond-Like Carbon Film Coating for Knives market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Diamond coating is one of the new tool coating materials, DLC coatings have a hardness range of 1500 - 3200 HV and are deposited at relatively low temperatures below 200°C. It uses low-pressure chemical vapor deposition technology to grow a layer of polycrystalline diamond film on the cemented carbide substrate. The diamond-like coating has obvious advantages in the machining of certain materials (Al, Ti and their composite materials) . Compared with natural diamond, the microstructure of the diamond-like carbon coating deposited by low-pressure vapor phase is still quite different. The hydrogen in DLC will be released slowly at a higher temperature, causing the coating to work unstable. Hydrogen-free DLC has higher hardness than hydrogen-containing DLC, and has the advantages of uniform structure, large-area deposition, low cost, and smooth surface. The friction coefficient of hydrogenated DLC increases slightly in the air environment, but it is always much smaller than that of hydrogen-free DLC. . DLC coatings are typically applied after depositing a PVD underlayer such as titanium (Ti), chromium (Cr) or chromium nitride (CrN), or a combination thereof, on the surface of the part, the choice of which depends on a number of factors , such as the hardness of the surface (substrate) of the part, the bonding characteristics with the substrate, the load-bearing requirements of the application, etc. DLC coatings will not work when used at temperatures above 350°C. Diamond-like carbon (DLC) coatings can be deposited by different techniques such as PVD arc, PVD sputtering and PACVD processes. Hydrogenated amorphous carbon is most commonly applied by plasma-assisted chemical vapor deposition (PACVD), and most hydrogen-free coatings use physical vapor deposition (PVD), which produces tetrahedral amorphous carbon by arc

evaporation. At present, in addition to the two types of DLC coatings on the market: hydrogen-containing type and hydrogen-free type, two types of ion-implanted DLC and metal-doped DLC have emerged.

This report studies the global Diamond-Like Carbon Film Coating for Knives production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Diamond-Like Carbon Film Coating for Knives, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Diamond-Like Carbon Film Coating for Knives that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Diamond-Like Carbon Film Coating for Knives total production and demand, 2018-2029, (K Tons)

Global Diamond-Like Carbon Film Coating for Knives total production value, 2018-2029, (USD Million)

Global Diamond-Like Carbon Film Coating for Knives production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Tons)

Global Diamond-Like Carbon Film Coating for Knives consumption by region & country, CAGR, 2018-2029 & (K Tons)

U.S. VS China: Diamond-Like Carbon Film Coating for Knives domestic production, consumption, key domestic manufacturers and share

Global Diamond-Like Carbon Film Coating for Knives production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Tons)

Global Diamond-Like Carbon Film Coating for Knives production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Tons)

Global Diamond-Like Carbon Film Coating for Knives production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Tons).

This reports profiles key players in the global Diamond-Like Carbon Film Coating for Knives market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Richter Precision, VaporTech, KinsDLC, Acree Technologies, Calico Coatings, Diamonex, DOWA THERMOTECH, HEF Durferrit and IBC Coatings Technologies, Inc., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Diamond-Like Carbon Film Coating for Knives market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Tons) and average price (USD/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Diamond-Like Carbon Film Coating for Knives Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Diamond-Like Carbon Film Coating for Knives Market, Segmentation by Type

Hydrogenated Amorphous Carbon Coating

Hydrogen-Free DLC Coating

Ion Implantation DLC Coating

Metal Doped DLC Coating

## Global Diamond-Like Carbon Film Coating for Knives Market, Segmentation by Application

CNC Machining Knives

Automobile Special Knives

Aerospace Knives

Graphite Mold Knives

Non-Ferrous Metal Processing Knives

Carbon Fiber Processing Knives

Fiberglass Processing Knives

Other

## Companies Profiled:

Richter Precision

VaporTech

KinsDLC

Acree Technologies

Calico Coatings

Diamonex

DOWA THERMOTECH

HEF Durferrit

IBC Coatings Technologies, Inc.

Nanotec Co., Ltd.

Nippon ITF Inc.

OC Oerlikon

Teer Coatings Ltd.

TOYOTA CENTRAL R&D LABS

Wallwork Heat Treatment

Oerlikon Balzers

IHI Group

DAWN Tech

Stararc Coating Advanced Material Technologies (Suzhou)

Hunan AVIC Super Diamond Film Hi Tech

SUPERIOR-COAT

CemeCon (Suzhou) Coating Technology

Guangdong Naixin Coating Technology

Anhui Chunyuan Coating Technology

Guangzhou Grandtech

Dongguan Pilates Nanotechnology

### Key Questions Answered

1. How big is the global Diamond-Like Carbon Film Coating for Knives market?
2. What is the demand of the global Diamond-Like Carbon Film Coating for Knives market?
3. What is the year over year growth of the global Diamond-Like Carbon Film Coating for Knives market?
4. What is the production and production value of the global Diamond-Like Carbon Film Coating for Knives market?
5. Who are the key producers in the global Diamond-Like Carbon Film Coating for Knives market?
6. What are the growth factors driving the market demand?

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