

Global Hydrogenated Diamond-Like Carbon Coating (DLC) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Hydrogenated Diamond-Like Carbon Coating (DLC) market size was valued at USD 1500.2 million in 2023 and is forecast to a readjusted size of USD 2175.8 million by 2030 with a CAGR of 5.5% during review period.

For DLC classification, it organized DLC types on a pseudo ternary phase diagram and clarified the relationship with deposition methods. DLC films formed with the sputter vapor deposition method and arc PVD method do not contain hydrogen as long as only solid graphite is used as the raw material and no hydrocarbon gas is used. They are characterized by the differences in the amount of sp³-bonded carbon and the structure of the cluster within the range from graphite-like carbon (GLC) that does not contain hydrogen and amorphous carbon (a-C) to tetrahedral amorphous carbon (ta-C). On the other hand, DLC films produced from a hydrocarbon gas using the plasma CVD method always contain hydrogen. These DLC films take the form of hydrogenated amorphous carbon (a-C:H) to hydrogenated tetrahedral amorphous carbon (ta-C:H), which are characterized by the differences in the amounts of hydrogen and sp³-bonded carbon. Thus, DLC is distinguished by the amounts of hydrogen and sp³-bonded carbon, and the cluster structure, which provides information for understanding various behaviors including mechanical (hardness and Young's modulus), optical (refraction, penetration/absorption), electric (conductance), and chemical (changes during an increase in temperature, oxidation, affinity with various materials) behaviors.

The major players in global Hydrogenated Diamond-Like Carbon Coating(DLC) market include Oerlikon Balzers, IHI Group, Morgan Advanced Materials, etc. The top 3 players occupy about 50% shares of the global market. Europe and North America are main

markets, they occupy about 80% of the global market. PECVD is the main type, with a share about 60%. Automobile Components is the main application, which holds a share about 60%.

The Global Info Research report includes an overview of the development of the Hydrogenated Diamond-Like Carbon Coating (DLC) industry chain, the market status of Automobile Components (PVD, PECVD), Tooling Components (PVD, PECVD), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Hydrogenated Diamond-Like Carbon Coating (DLC).

Regionally, the report analyzes the Hydrogenated Diamond-Like Carbon Coating (DLC) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Hydrogenated Diamond-Like Carbon Coating (DLC) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Hydrogenated Diamond-Like Carbon Coating (DLC) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Hydrogenated Diamond-Like Carbon Coating (DLC) industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K MT), revenue generated, and market share of different by Type (e.g., PVD, PECVD).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Hydrogenated Diamond-Like Carbon Coating (DLC) market.

Regional Analysis: The report involves examining the Hydrogenated Diamond-Like Carbon Coating (DLC) market at a regional or national level. Report analyses regional

factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Hydrogenated Diamond-Like Carbon Coating (DLC) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Hydrogenated Diamond-Like Carbon Coating (DLC):

Company Analysis: Report covers individual Hydrogenated Diamond-Like Carbon Coating (DLC) manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Hydrogenated Diamond-Like Carbon Coating (DLC) This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Automobile Components, Tooling Components).

Technology Analysis: Report covers specific technologies relevant to Hydrogenated Diamond-Like Carbon Coating (DLC). It assesses the current state, advancements, and potential future developments in Hydrogenated Diamond-Like Carbon Coating (DLC) areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Hydrogenated Diamond-Like Carbon Coating (DLC) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Hydrogenated Diamond-Like Carbon Coating (DLC) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate

calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

PVD

PECVD

Others

Market segment by Application

Automobile Components

Tooling Components

Other

Major players covered

Oerlikon Balzers

IHI Group

CemeCon

Morgan Advanced Materials

Miba Group (Teer Coatings)

Acree Technologies

IBC Coatings Technologies

Techmetals

Calico Coatings

Stararc Coating

Creating Nano Technologies

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)

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

Chapter 1, to describe Hydrogenated Diamond-Like Carbon Coating (DLC) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Hydrogenated Diamond-Like Carbon Coating (DLC), with price, sales, revenue and global market share of Hydrogenated Diamond-Like Carbon Coating (DLC) from 2019 to 2024.

Chapter 3, the Hydrogenated Diamond-Like Carbon Coating (DLC) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Hydrogenated Diamond-Like Carbon Coating (DLC) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share

and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Hydrogenated Diamond-Like Carbon Coating (DLC) market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Hydrogenated Diamond-Like Carbon Coating (DLC).

Chapter 14 and 15, to describe Hydrogenated Diamond-Like Carbon Coating (DLC) sales channel, distributors, customers, research findings and conclusion.

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