

Global Plasma Enhanced Chemical Deposition Equipment Supply, Demand and Key Producers, 2023-2029

<https://marketpublishers.com/r/G9F9485EE771EN.html>

Date: July 2023

Pages: 120

Price: US\$ 4,480.00 (Single User License)

ID: G9F9485EE771EN

Abstracts

The global Plasma Enhanced Chemical Deposition Equipment market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Plasma enhanced chemical deposition equipment is a device that utilizes plasma technology to enhance the chemical vapor deposition process. It is a variant of chemical vapor deposition technology that improves the control of the deposition process and film quality by introducing plasma. In plasma enhanced chemical deposition equipment, the commonly used working gas is usually one or more chemical gases (such as ammonia, silane, dimethyl aluminum alcohol, etc.). These gases are heated to high temperature in a vacuum chamber and introduced into the plasma to undergo chemical reactions to generate thin film materials. The generation of plasma can be achieved through methods such as radio frequency power supply or microwave excitation. The advantage of plasma enhanced chemical deposition lies in increasing the deposition rate: the introduction of plasma can increase the concentration of active species, promote the reaction rate, and thus accelerate the deposition rate of thin films. Improving film quality: Plasma can provide additional energy, promote the decomposition and recombination of reactants, help form a dense and uniform film structure, and improve the quality and adhesion of the film. Low temperature deposition: The presence of plasma reduces the activation energy of the reaction, enabling the deposition of thin films at lower temperatures, avoiding damage to the substrate material at high temperatures. Plasma enhanced chemical deposition equipment is widely used in fields such as semiconductors, optoelectronics, and thin film technology to prepare various functional thin film materials, such as silicon nitride, oxides, and metal thin films. It has important application value in microelectronic devices, solar cells, optical coatings, anti reflection

films, silicon based sensors, and other fields.

This report studies the global Plasma Enhanced Chemical Deposition Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Plasma Enhanced Chemical Deposition Equipment, 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 Plasma Enhanced Chemical Deposition Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Plasma Enhanced Chemical Deposition Equipment total production and demand, 2018-2029, (Units)

Global Plasma Enhanced Chemical Deposition Equipment total production value, 2018-2029, (USD Million)

Global Plasma Enhanced Chemical Deposition Equipment production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Plasma Enhanced Chemical Deposition Equipment consumption by region & country, CAGR, 2018-2029 & (Units)

U.S. VS China: Plasma Enhanced Chemical Deposition Equipment domestic production, consumption, key domestic manufacturers and share

Global Plasma Enhanced Chemical Deposition Equipment production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Units)

Global Plasma Enhanced Chemical Deposition Equipment production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Plasma Enhanced Chemical Deposition Equipment production by Application production, value, CAGR, 2018-2029, (USD Million) & (Units).

This reports profiles key players in the global Plasma Enhanced Chemical Deposition

Equipment 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 Applied Materials, Inc., Lam Research Corporation, Tokyo Electron Limited, ASML Holding N.V., Canon Inc., SCREEN Holdings Co., Ltd., Hitachi High-Technologies Corporation, Oxford Instruments plc and Plasma-Therm LLC, 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 Plasma Enhanced Chemical Deposition Equipment market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) 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 Plasma Enhanced Chemical Deposition Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Plasma Enhanced Chemical Deposition Equipment Market, Segmentation by Type

Inductively Coupled Plasma Enhanced Chemical Vapor Deposition Equipment

Microwave Plasma Enhanced Chemical Vapor Deposition Equipment

Rf Plasma Enhanced Chemical Vapor Deposition Equipment

Global Plasma Enhanced Chemical Deposition Equipment Market, Segmentation by Application

Thin Film Coating

Optical Coating

Conductive Coating

Others

Companies Profiled:

Applied Materials, Inc.

Lam Research Corporation

Tokyo Electron Limited

ASML Holding N.V.

Canon Inc.

SCREEN Holdings Co., Ltd.

Hitachi High-Technologies Corporation

Oxford Instruments plc

Plasma-Therm LLC

ULVAC, Inc.

Kurt J. Lesker Company

SENTECH Instruments GmbH

SAMCO Inc.

Picosun Group

Beijing Semicore Zkx Electronics Equipment Co., Ltd.

Key Questions Answered

1. How big is the global Plasma Enhanced Chemical Deposition Equipment market?
2. What is the demand of the global Plasma Enhanced Chemical Deposition Equipment market?
3. What is the year over year growth of the global Plasma Enhanced Chemical Deposition Equipment market?
4. What is the production and production value of the global Plasma Enhanced Chemical Deposition Equipment market?
5. Who are the key producers in the global Plasma Enhanced Chemical Deposition Equipment market?
6. What are the growth factors driving the market demand?

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