

Cold Plasma Market - Forecasts from 2020 to 2025

<https://marketpublishers.com/r/C4ABD8EAA5C8EN.html>

Date: August 2020

Pages: 124

Price: US\$ 3,950.00 (Single User License)

ID: C4ABD8EAA5C8EN

Abstracts

The global cold plasma market is expected to grow at a CAGR of 15.52% over the forecast period to reach a total market size of US\$3,830.722 million by 2025, increasing from US\$1,612.275 million in 2019. In the recent year's cold plasma technology have found extensive application in the material processing industry and is now widely used in the manufacturing of semiconductor, special glasses and even for magnetic media and metal coating. Innovations in textile production techniques coupled with the growing investment in research and development are expected to drive the growth of the market during the forecast period. However, high capital investment is anticipated to restrain the market growth opportunities in the coming years.

The textile industry is holding a significant share in the market

The textile industry today is moving towards innovative production techniques to improve product quality and meeting the environmental and social objectives. Plasma treatment has certain advantages as they are able to modify the surface properties of materials with an environment-friendly device. For the treatment of fabrics, cold plasma is used mostly where ambient treatment atmosphere is near the room temperature. Plasma is partially ionized gas, composed of highly excited atomic, molecular, ionic and radical species with free electrons and photons. Some of the most common plasma techniques that are used to treat the textile substrates are Glow Discharge, Atmospheric Pressure Plasma, and Dielectric-Barrier Discharge (DBD) among others. In addition, expanding the textile industry in developing countries like India and China coupled with the favorable government initiative is expected to drive the growth of the market over the forecast period. For instance, recently, the Clothing Manufacturers' Association of India (CMAI) signed a memorandum of understanding with the China Chamber of Commerce for Import and Export of Textiles (CCCT) to explore the area of operation for increasing exports from India.

Application in healthcare

Recently, the ability of cold atmospheric plasma to inactivate bacteria gained more relevance as modern society is facing many serious healthcare challenges. A chronic wound like diabetic ulcers does not heal easily and one of the problems is the high level of infection caused by a spectrum of bacteria. The inability of conventional forms to solve these problems leads to the growing demand for new approaches and technologies such as cold atmospheric plasma that has been showing to effectively inactivate bacteria and to greatly reduce the burden in infected chronic wounds, making it an attractive technology to overcome such challenges. Furthermore, the use of cold plasma allows effective medical treatment of chronic diseases such as cancer and various skin injuries and diseases, like wounds, bacterial infections, and fungoid infections among others. Besides increasing application of cold plasma in cancer treatment, wound healing, and infective diseases are augmenting the growth of the market in the coming years.

Geographically North America is holding a significant share in the market

By geography, the cold plasma market is segmented as North America, South America, Europe, Middle East and Africa, and the Asia Pacific. North America and Europe are projected to show significant market share due to the early adopters of technology and innovations, thus contributing to generating high revenues. On the other hand, the Asia Pacific region is estimated to show high growth prospects with growth in the electronics and semiconductor industry. In addition, due to rising household expenditure, there is an increasing demand for consumer goods which attracts market players to invest in the country in order to cater to the growing consumer base which is further expected to propel the market growth opportunities for manufacturers and vendors in the coming years. Also, the region is the home of countries like China and Japan, where China is considered one of the biggest manufacturing hubs in the world and Japan which is one of the most advanced economies in the world and is the world's third-biggest pharmaceuticals market. The growing geriatric population coupled with the increasing investment in the pharmaceutical industry which is expected to propel the market growth opportunities for manufactures and vendors over the forecast period.

Competitive Insights

Prominent key market players in the cold plasma market include Nordson Corporation, Surfex Technologies, LLC, Tantec A/S, Plasmatrete GmbH, AcXys Plasma Technologies, Apyx Medical Corporation, Relyon Plasma GmbH, Adtec Plasma

Technology Co., Ltd, Europlasma Nv, and Thierry Corporation. The number of players in the cold plasma market is large and growing with the opportunity to generate significant revenues as a result of growing demand. Key players in the market are seen to adopt differentiated strategies and are either looking to expand their market portfolio with investments in the development of the new product line and product innovation, or some companies are opting for mergers, acquisitions, and strategic partnerships to expand their market presence and/or expand their product line. For instance, in March 2019, the Nordson Company, a global leader in plasma processing technology introduces its automated plasma treatment system FlexTRAK@-SHS. The system includes a 9.6-liter large volume F3-S process chamber that can even configure large strips and treat more strips per cycle. Major market players in the global cold plasma market have been covered along with their relative competitive position and strategies. The report also covers recent deals and investments of major market players over the last couple of years. The company profiles section details the business overview, financial performance (public companies) for the past few years, key products and services being offered along with the recent deals and investments of these important players in the global cold plasma market.

Segmentation:

By Industry

Textile Industry

Finishing

Sterilization

Others

Medical Industry

Wound Healing

Cancer Treatment

Others

Polymer & Plastic Industry

Surface Treatment

Others

Electronics & Semiconductors Industry

Others

By Regime

Low-Pressure Cold Plasma

Atmospheric Cold Plasma

By Geography

North America

USA

Canada

Mexico

South America

Brazil

Argentina

Others

Europe

UK

Germany

France

Spain

Italy

Others

Middle East and Africa

Saudi Arabia

South Africa

Others

Asia Pacific

Japan

China

India

South Korea

Others

Contents

1. INTRODUCTION

- 1.1. Market Definition
- 1.2. Market Segmentation

2. RESEARCH METHODOLOGY

- 2.1. Research Data
- 2.2. Assumptions

3. EXECUTIVE SUMMARY

- 3.1. Research Highlights

4. MARKET DYNAMICS

- 4.1. Market Drivers
- 4.2. Market Restraints
- 4.3. Porters Five Forces Analysis
 - 4.3.1. Bargaining Power of Suppliers
 - 4.3.2. Bargaining Power of Buyers
 - 4.3.3. Threat of New Entrants
 - 4.3.4. Threat of Substitutes
 - 4.3.5. Competitive Rivalry in the Industry
- 4.4. Industry Value Chain Analysis

5. COLD PLASMA MARKET ANALYSIS, BY REGIME

- 5.1. Low-Pressure Cold Plasma
- 5.2. Atmospheric Cold Plasma

6. COLD PLASMA MARKET ANALYSIS, BY INDUSTRY

- 6.1. Introduction
- 6.2. Textile Industry
 - 6.2.1. Finishing
 - 6.2.2. Sterilization

- 6.2.3. Others
- 6.3. Medical Industry
 - 6.3.1. Wound Healing
 - 6.3.2. Cancer Treatment
 - 6.3.3. Others
- 6.4. Polymer & Plastic Industry
 - 6.4.1. Surface Treatment
 - 6.4.2. Others
- 6.5. Electronics & Semiconductors Industry
- 6.6. Others

7. COLD PLASMA MARKET ANALYSIS, BY GEOGRAPHY

- 7.1. Introduction
- 7.2. North America
 - 7.2.1. North America Cold Plasma Market, By Regime
 - 7.2.2. North America Cold Plasma Market, By Industry
 - 7.2.3. By Country
 - 7.2.3.1. United States
 - 7.2.3.2. Canada
 - 7.2.3.3. Mexico
- 7.3. South America
 - 7.3.1. South America Cold Plasma Market, By Regime
 - 7.3.2. South America Cold Plasma Market, By Industry
 - 7.3.3. By Country
 - 7.3.3.1. Brazil
 - 7.3.3.2. Argentina
 - 7.3.3.3. Others
- 7.4. Europe
 - 7.4.1. Europe Cold Plasma Market, By Regime
 - 7.4.2. Europe Cold Plasma Market, By Industry 2019 To 2025
 - 7.4.3. By Country
 - 7.4.3.1. UK
 - 7.4.3.2. Germany
 - 7.4.3.3. France
 - 7.4.3.4. Spain
 - 7.4.3.5. Italy
 - 7.4.3.6. Others
- 7.5. Middle East and Africa

- 7.5.1. Middle East And Africa Cold Plasma Market, By Regime
- 7.5.2. Middle East And Africa Cold Plasma Market, By Industry
- 7.5.3. By Country
 - 7.5.3.1. Saudi Arabia
 - 7.5.3.2. South Africa
 - 7.5.3.3. Others
- 7.6. Asia Pacific
 - 7.6.1. Asia Pacific Cold Plasma Market, By Regime
 - 7.6.2. Asia Pacific Cold Plasma Market, By Industry
 - 7.6.3. By Country
 - 7.6.3.1. Japan
 - 7.6.3.2. China
 - 7.6.3.3. India
 - 7.6.3.4. South Korea
 - 7.6.3.5. Others

8. COMPETITIVE ENVIRONMENT AND ANALYSIS

- 8.1. Major Players and Strategy Analysis
- 8.2. Emerging Players and Market Lucrativeness
- 8.3. Mergers, Acquisitions, Agreements, and Collaborations
- 8.4. Vendor Competitiveness Matrix

9. COMPANY PROFILES

- 9.1. Nordson Corporation
- 9.2. Surfx Technologies, LLC
- 9.3. Tantec A/S
- 9.4. Plasmatrete GmbH
- 9.5. AcXys Plasma Technologies
- 9.6. Apyx Medical Corporation
- 9.7. Relyon Plasma GmbH
- 9.8. Adtec Plasma Technology Co., Ltd
- 9.9. Europlasma Nv
- 9.10. Thierry Corporation

I would like to order

Product name: Cold Plasma Market - Forecasts from 2020 to 2025

Product link: <https://marketpublishers.com/r/C4ABD8EAA5C8EN.html>

Price: US\$ 3,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/C4ABD8EAA5C8EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970