

Global Freezing Pen Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Freezing Pen market size is expected to reach \$ 399 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

Global freezing pen production in 2025 is 153,000 units, with an average price of US\$1,600 per unit.

Freezing Pen, also known as Freeze Pen, is a medical device used in cryotherapy for the removal of benign skin lesions like warts, skin tags, and age spots. It works by delivering a precise, focused blast of extremely cold gas, typically nitrous oxide, to freeze and destroy the targeted tissue.

The upstream of freezing pens mainly includes suppliers of medical liquid nitrogen, medical nitrous oxide, precision metal nozzles and needles, medical valves and micro-gas circuit components, and medical device-grade housings and seals. Representative companies include Air Liquide, Praxair, Nippon Sanso, Swagelok, and Parker Hannifin. Downstream demand is primarily concentrated in dermatology chain hospitals, aesthetic medicine institutions, maternal and infant hospitals, dermatology prevention and treatment centers, and primary community health stations. Typical clients include Dermatology Specialists, SkinCeuticals Clinics, DermTech Clinics, Guosai Dermatology Medical, and Ruili Medical Aesthetics. Downstream demand centers on localized cryotherapy, covering warts, skin tags, pigmented lesions, vascular lesions, and the management of mild tumors, extending to minor aesthetic treatments. The rapid expansion of aesthetic medicine institutions in China, Southeast Asia, and Latin America has increased the demand for low-cost, easy-to-use cryotherapy pens.

Industry trends are characterized by rapid growth in demand for disposable freezing pens, the rise of portable devices to replace carbon dioxide or liquid nitrogen tanks, high-

frequency consumption due to shorter procedures in aesthetic and minimally invasive medical treatments, exploratory penetration of home skin care devices, and the emergence of smart cryopens driven by increased compliance and traceability requirements. Driving factors include the expansion of the aesthetic medicine market, an increase in dermatology patients, expansion of primary healthcare facilities, a growing preference for lightweight treatments, and shorter repurchase cycles due to the disposable nature of equipment. Obstacles mainly include transportation and storage restrictions on liquid nitrogen and N₂O, price competition from low-end products, stricter regulations on aesthetic medicine in some countries, cost fluctuations of disposable cryotherapy agents, and the gradual replacement of some treatments by lasers.

The industry's annual production capacity for a single production line is typically between 150,000 and 300,000 units, with gross profit margins generally between 28% and 45%.

This report studies the global Freezing Pen production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Freezing Pen and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Freezing Pen that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Freezing Pen total production and demand, 2021-2032, (Units)

Global Freezing Pen total production value, 2021-2032, (USD Million)

Global Freezing Pen production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Freezing Pen consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Freezing Pen domestic production, consumption, key domestic manufacturers and share

Global Freezing Pen production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Freezing Pen production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Freezing Pen production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Freezing Pen 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 H&O Equipments, CryoIQ, CryoConcepts, Delasco, Cortex Technology, Cryoswiss, CryoSuccess, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Freezing Pen 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 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Freezing Pen Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Freezing Pen Market, Segmentation by Type:

Nitrous Oxide (N₂O) Cryo Pen

Liquid Nitrogen (LN₂) Cryo Pen

Carbon Dioxide (CO₂) Cryo Pen

Global Freezing Pen Market, Segmentation by Risk Level:

Class I

Class II

Class III

Global Freezing Pen Market, Segmentation by Cartridges:

8g

16g

Global Freezing Pen Market, Segmentation by Application:

Dermatology

Aesthetics

Gynecology

Podiatry

Veterinary Medicine

Other

Companies Profiled:

H&O Equipments

CryoIQ

CryoConcepts

Delasco

Cortex Technology

Cryoswiss

CryoSuccess

Key Questions Answered:

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

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