

Global Cryogenic Treatment Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Cryogenic Treatment market size was valued at US\$ 230 million in 2025 and is forecast to a readjusted size of US\$ 381 million by 2032 with a CAGR of 7.4% during review period.

Cryogenic treatment is a specialized thermal treatment process that involves subjecting materials to extremely low temperatures, typically below -150°C (-238°F) for an extended period. This process is primarily used to enhance the mechanical properties and performance of metals and alloys by inducing beneficial changes in their microstructure. Cryogenic treatment is a valuable process for enhancing the mechanical properties and performance of metals and alloys in various industrial applications, leading to improved durability, reliability, and cost-effectiveness.

North America: Largest market; strong demand from tooling, aerospace, defense, motorsport and industrial machining

Europe: Mature market; demand from automotive tooling, precision machinery, aerospace and industrial components

Asia-Pacific: Fastest growth; China, Japan, South Korea and India expanding tooling and precision manufacturing

Latin America: Small market, mainly industrial tools, mining, oil & gas and automotive repair

Middle East & Africa: Niche demand from oil & gas, maintenance and high-wear industrial components

The main driver is demand for longer tool life and lower replacement cost. Cryogenic treatment can reduce retained austenite in tool steels, increase martensite content and improve dimensional stability. Another driver is the rising use of high-performance parts in aerospace, automotive, motorsport, machining and defense. Growth is also supported by the broader expansion of heat treatment and advanced materials processing.

This report is a detailed and comprehensive analysis for global Cryogenic Treatment market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Cryogenic Treatment market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Cryogenic Treatment market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Cryogenic Treatment market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Cryogenic Treatment market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Cryogenic Treatment

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Cryogenic Treatment market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bodycote, Aalberts Surface Technologies, 300 Below, Solar Atmospheres, Paulo, ALD Heat Treatment Services, voestalpine High Performance Metals, Nitrofreeze, Controlled Thermal Processing, CryoPlus, etc.

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

Market segmentation

Cryogenic Treatment market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Liquid Method

Gas Method

Market segment by Lowest Treatment Temperature

Sub-zero Cryogenic Treatment (-40 ? ~ -80 ?)

Deep Cryogenic Treatment (-80 ? ~ -160 ?)

Ultra-deep Cryogenic Treatment (-160 ? ~ -196 ?)

Market segment by Treatment Coverage of Workpiece

Full integral cryogenic treatment

Local partial cryogenic treatment

Market segment by Application

Precision Instrument

Sporting Equipment

Medical Devices

Others

Market segment by players, this report covers

Bodycote

Aalberts Surface Technologies

300 Below

Solar Atmospheres

Paulo

ALD Heat Treatment Services

voestalpine High Performance Metals

Nitrofreeze

Controlled Thermal Processing

CryoPlus

Advanced Heat Treat Corp

Metals Technology Corporation

ThermTech

Modern Industries

Cincinnati Steel Treating

Incertec

Houston Heat Treat

Tri-City Heat Treat

Thermetco

HTS Group

Southwest Metal Treating

CryoHeat

Deep Cryogenics International

Cryogenics International

Cryogenix

Guangdong Strong Metal Technology

Zhongrui Metal

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-

Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Cryogenic Treatment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Cryogenic Treatment, with revenue, gross margin, and global market share of Cryogenic Treatment from 2021 to 2026.

Chapter 3, the Cryogenic Treatment competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Cryogenic Treatment market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Cryogenic Treatment.

Chapter 13, to describe Cryogenic Treatment research findings and conclusion.

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