

Global Cryogenic Sealed Liquid Oxygen (LOX) Transfer Pumps Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GFA019A1697DEN.html>

Date: April 2026

Pages: 139

Price: US\$ 3,480.00 (Single User License)

ID: GFA019A1697DEN

Abstracts

According to our (Global Info Research) latest study, the global Cryogenic Sealed Liquid Oxygen (LOX) Transfer Pumps market size was valued at US\$ 156 million in 2025 and is forecast to a readjusted size of US\$ 234 million by 2032 with a CAGR of 6.0% during review period.

Global shipments of cryogenic sealed liquid oxygen (LOX) transfer pumps are projected to reach approximately 38,000 units annually in 2025, with the average selling price worldwide ranging from \$3,000 to \$5,000 per unit. The average transaction price for mainstream industrial and medical-grade products is around \$4,000 per unit. This price range primarily corresponds to small-to-medium power industrial and medical-grade liquid oxygen transfer pumps, excluding aerospace-grade high-speed turbo cryogenic pumps or large-scale air separation unit-specific high-pressure cryogenic pumps. Major demand sources include large hospital liquid oxygen storage systems, small-to-medium-sized air separation units (ASUs), industrial gas filling stations, oxygen-enriched combustion systems in the steel metallurgy industry, and oxygen supply systems for the new energy and electronics industries. The European and American markets account for approximately 45%–50%, with the US, Germany, and Japan exhibiting high technological concentration in sealing structures and materials engineering. The Asia-Pacific region (China, India, and Southeast Asia) is experiencing rapid growth driven by industrial gas stations and new air separation unit investments. Cryogenic sealed liquid oxygen (LOX) transfer pumps are specialized cryogenic pumps that operate in ultra-low temperatures down to -183°C , employing mechanical seals or shielded motors to prevent liquid oxygen leakage. Their core function is to provide stable and safe liquid transport and pressure boosting between liquid oxygen storage tanks and downstream vaporization, pressurization, or filling systems. Their engineering focus is not on

ordinary cryogenic liquid transport equipment, but rather on safety-critical components in high-oxygen-concentration, high-oxidation-prone environments. Compared to open or conventional cryogenic pumps, cryogenic sealed liquid oxygen (LOX) transfer pumps have higher standards in shaft seal structure, material oxidation resistance, fire and explosion protection design, and lubrication isolation structures, especially in the shaft seal area where any trace leakage and grease contamination risks must be avoided. With the advancement of distributed air separation unit deployments and the construction of medical oxygen supply infrastructure, this product is evolving from a 'cryo-assisted device' to a 'standardized safe transport unit.'

The core influencing factors of the cryogenic sealed liquid oxygen (LOX) transfer pump market do not depend on the cycle of a single industrial pump industry, but are closely related to the global investment scale in air separation, the construction of medical oxygen supply systems, and industrial gas demand. On the one hand, the steel and chemical industries maintain stable oxygen demand, driving demand for air separation units and related cryogenic pumps. On the other hand, the upgrading of liquid oxygen storage tanks in the medical system and the construction of regional gas stations create a stable replacement market. It is worth noting that this market exhibits a pattern where European, American, and Japanese companies have a high concentration in high-end sealing and materials technologies, while Chinese manufacturers possess economies of scale in engineering manufacturing and cost control. Future competition will revolve around sealing reliability, standardized production capabilities, and intelligent operation and maintenance capabilities, rather than simply price competition. Overall, this industry possesses characteristics of moderate and steady growth and high safety barriers, and its competitive essence is shifting from 'traditional mechanical manufacturing capabilities' to system-level capabilities in 'materials engineering and digital operation and maintenance capabilities.'

This report is a detailed and comprehensive analysis for global Cryogenic Sealed Liquid Oxygen (LOX) Transfer Pumps market. Both quantitative and qualitative analyses are presented by manufacturers, 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 Sealed Liquid Oxygen (LOX) Transfer Pumps market size and

Global Cryogenic Sealed Liquid Oxygen (LOX) Transfer Pumps Market 2026 by Manufacturers, Regions, Type and App...

forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Cryogenic Sealed Liquid Oxygen (LOX) Transfer Pumps market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Cryogenic Sealed Liquid Oxygen (LOX) Transfer Pumps market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Cryogenic Sealed Liquid Oxygen (LOX) Transfer Pumps market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Sealed Liquid Oxygen (LOX) Transfer Pumps
- 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 Sealed Liquid Oxygen (LOX) Transfer Pumps market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Barber Nichols, Alfa Laval, Cryostar, Nikkiso, Ebara, Ruhrpumpen, Flowserve, Edwards, Houpu, Stirling, etc.

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

Market Segmentation

Cryogenic Sealed Liquid Oxygen (LOX) Transfer Pumps 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 in terms of volume and value. This analysis can help you expand your business by targeting

qualified niche markets.

Market segment by Type

Centrifugal Liquid Oxygen Pump

Reciprocating Liquid Oxygen Pump

Market segment by Export Pressure

1.6–5 MPa

> 5 Mpa

Market segment by Flow Range

2–50 m³/h

50-100 m³/h

> 100 m³/h

Market segment by Application

Industrial

Medical

Aerospace

Others

Major players covered

Barber Nichols

Alfa Laval

Cryostar

Nikkiso

Ebara

Ruhrpumpen

Flowserve

Edwards

Houpu

Stirling

PHPK Technologies

Optimex

Vanzetti Engineering

WOBD

JZYJ

Indian Compressors

Hangzhou NAC

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 Cryogenic Sealed Liquid Oxygen (LOX) Transfer Pumps product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Cryogenic Sealed Liquid Oxygen (LOX) Transfer Pumps, with price, sales quantity, revenue, and global market share of Cryogenic Sealed Liquid Oxygen (LOX) Transfer Pumps from 2021 to 2026.

Chapter 3, the Cryogenic Sealed Liquid Oxygen (LOX) Transfer Pumps competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Cryogenic Sealed Liquid Oxygen (LOX) Transfer Pumps breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and Cryogenic Sealed Liquid Oxygen (LOX) Transfer Pumps market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Cryogenic Sealed Liquid Oxygen (LOX) Transfer Pumps.

Chapter 14 and 15, to describe Cryogenic Sealed Liquid Oxygen (LOX) Transfer Pumps sales channel, distributors, customers, research findings and conclusion.

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