

Global Carbon Dioxide Injection Pump Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GE60BA5B12CBEN.html>

Date: August 2026

Pages: 120

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

ID: GE60BA5B12CBEN

Abstracts

According to our (Global Info Research) latest study, the global Carbon Dioxide Injection Pump market size was valued at US\$ 248 million in 2025 and is forecast to a readjusted size of US\$ 368 million by 2032 with a CAGR of 5.8% during review period.

In 2025, global Carbon Dioxide Injection Pump production reached approximately 136 units, and the average price was US\$1.77 million per unit. A carbon dioxide injection pump is specialized pumping equipment designed to precisely transport and inject carbon dioxide in liquid, supercritical, or high-pressure states into a target system or medium. It ensures stable pressurization, transport, and flow control of CO₂ under conditions involving high pressure, stringent sealing requirements, and complex operating environments. Typically utilizing configurations such as plunger, diaphragm, centrifugal, or multistage high-pressure pumps, this equipment features corrosion resistance, high-pressure tolerance, leak-proof capabilities, and precise metering, making it suitable for handling liquid CO₂, supercritical CO₂, and mixed media. Widely used in fields such as Carbon Capture, Utilization, and Storage (CCUS), CO₂-enhanced oil recovery (CO₂-EOR), food and beverage carbonation, chemical processing, supercritical fluid extraction, water treatment, and geological sequestration, these pumps are core equipment for achieving efficient CO₂ utilization and emission reduction. Driven by the global low-carbon transition and the rapid growth of the CCUS industry, carbon dioxide injection pumps are continuously evolving toward ultra-high pressures, higher flow rates, intelligent monitoring, and enhanced energy efficiency.

The development of the carbon dioxide injection pump market is closely linked to global progress in Carbon Capture, Utilization, and Storage (CCUS), CO₂-enhanced oil recovery (CO₂-EOR), the energy transition, and industrial decarbonization. Currently,

North America holds the largest global market share, driven by a mature CO₂-EOR industry and large-scale CCUS project deployments. Europe is experiencing rapid market growth as carbon neutrality policies drive the development of cross-border carbon transport and storage infrastructure. Meanwhile, the Asia-Pacific region has emerged as a key growth market, fueled by rising decarbonization demands in high-emission sectors such as coal-fired power, steel, and chemicals and increased government support. Key applications for these pumps include CCUS projects, enhanced oil and gas recovery, geological sequestration, and industrial carbon utilization. Looking ahead, as global carbon reduction targets advance, carbon pricing mechanisms mature, and the application of supercritical CO₂ technology expands, the industry will evolve toward ultra-high pressure, high flow rates, intelligent monitoring, high energy efficiency, and the use of corrosion-resistant materials. Digital operations and maintenance, remote condition monitoring, and integrated operation with carbon transport pipeline networks will also become significant trends. However, the industry faces challenges such as high investment costs for CCUS projects, immature business models, heavy reliance on policy support, insufficient CO₂ infrastructure, and stringent regulatory requirements for long-term sequestration. Additionally, high-pressure operating conditions place demanding requirements on sealing reliability, material corrosion resistance, and operational safety. Overall, carbon dioxide injection pumps are classified as high-end, technology-intensive fluid handling equipment; the industry's average gross margin typically ranges from 25% to 40%, with products designed for high-pressure customization and supercritical CO₂ applications commanding higher profitability.

This report is a detailed and comprehensive analysis for global Carbon Dioxide Injection Pump 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 Carbon Dioxide Injection Pump market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (Million US\$/Unit), 2021-2032

Global Carbon Dioxide Injection Pump market size and forecasts by region and country,

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

Global Carbon Dioxide Injection Pump market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (Million US\$/Unit), 2021-2032

Global Carbon Dioxide Injection Pump market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (Million 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 Carbon Dioxide Injection Pump

- 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 Carbon Dioxide Injection Pump 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 Flowserve Corporation, Sulzer Ltd, KSB SE & Co. KGaA, Ruhrpumpen Group, Ebara Corporation, Nikkiso Co., Ltd., HERMETIC-Pumpen GmbH, LEWA GmbH, Sundyne, ITT Goulds Pumps, etc.

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

Market Segmentation

Carbon Dioxide Injection Pump 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 Injection Pump

Reciprocating Injection Pump

Diaphragm Injection Pump

Others

Market segment by Pressure

Low-pressure Type: ≤100 bar

Medium-pressure Type: 101-250 bar

High-pressure Type: >250 bar

Market segment by Application

Carbon Capture, Utilization and Storage (CCUS)

Enhanced Oil Recovery (CO₂-EOR)

Chemical Processing

Others

Major players covered

Flowserve Corporation

Sulzer Ltd

KSB SE & Co. KGaA

Ruhrpumpen Group

Ebara Corporation

Nikkiso Co., Ltd.

HERMETIC-Pumpen GmbH

LEWA GmbH

Sundyne

ITT Goulds Pumps

Baker Hughes

Celeros Flow Technology

Yantai Longgang Pump

Shanghai Kaiquan Pump

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 Carbon Dioxide Injection Pump product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Carbon Dioxide Injection Pump, with price, sales quantity, revenue, and global market share of Carbon Dioxide Injection Pump from 2021 to 2026.

Chapter 3, the Carbon Dioxide Injection Pump competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Carbon Dioxide Injection Pump 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 Carbon Dioxide Injection Pump 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 Carbon Dioxide Injection Pump.

Chapter 14 and 15, to describe Carbon Dioxide Injection Pump sales channel, distributors, customers, research findings and conclusion.

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