

# Global Carbon Dioxide Injection Pump Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G98D7435FC66EN.html>

Date: August 2026

Pages: 116

Price: US\$ 4,480.00 (Single User License)

ID: G98D7435FC66EN

## Abstracts

The global Carbon Dioxide Injection Pump market size is expected to reach \$ 368 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

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 CO<sub>2</sub> 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 CO<sub>2</sub>, supercritical CO<sub>2</sub>, and mixed media. Widely used in fields such as Carbon Capture, Utilization, and Storage (CCUS), CO<sub>2</sub>-enhanced oil recovery (CO<sub>2</sub>-EOR), food and beverage carbonation, chemical processing, supercritical fluid extraction, water treatment, and geological sequestration, these pumps are core equipment for achieving efficient CO<sub>2</sub> 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), CO<sub>2</sub>-enhanced oil recovery (CO<sub>2</sub>-EOR), the energy transition, and industrial decarbonization. Currently, North America holds the largest global market share, driven by a mature CO<sub>2</sub>-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 CO<sub>2</sub> 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 CO<sub>2</sub> 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 CO<sub>2</sub> applications commanding higher profitability.

This report studies the global Carbon Dioxide Injection Pump production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon Dioxide Injection Pump 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 Carbon Dioxide Injection Pump that contribute to its increasing demand across many markets.

#### Highlights and key features of the study

Global Carbon Dioxide Injection Pump total production and demand, 2021-2032, (Units)  
Global Carbon Dioxide Injection Pump total production value, 2021-2032, (USD Million)  
Global Carbon Dioxide Injection Pump production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)  
Global Carbon Dioxide Injection Pump consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Carbon Dioxide Injection Pump domestic production, consumption, key domestic manufacturers and share

Global Carbon Dioxide Injection Pump production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Carbon Dioxide Injection Pump production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Carbon Dioxide Injection Pump production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Carbon Dioxide Injection Pump 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Carbon Dioxide Injection Pump market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (Million 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 Carbon Dioxide Injection Pump Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Carbon Dioxide Injection Pump Market, Segmentation by Type:

Centrifugal Injection Pump

Reciprocating Injection Pump

Diaphragm Injection Pump

Others

#### Global Carbon Dioxide Injection Pump Market, Segmentation by Pressure:

Low-pressure Type:  $\leq 100$  bar

Medium-pressure Type:  $101 \leq 250$  bar

High-pressure Type:  $> 250$  bar

#### Global Carbon Dioxide Injection Pump Market, Segmentation by Application:

Carbon Capture, Utilization and Storage (CCUS)

Enhanced Oil Recovery (CO<sub>2</sub>-EOR)

Chemical Processing

Others

### Companies Profiled:

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

### Key Questions Answered:

1. How big is the global Carbon Dioxide Injection Pump market?
2. What is the demand of the global Carbon Dioxide Injection Pump market?
3. What is the year over year growth of the global Carbon Dioxide Injection Pump market?
4. What is the production and production value of the global Carbon Dioxide Injection

Pump market?

5. Who are the key producers in the global Carbon Dioxide Injection Pump market?

6. What are the growth factors driving the market demand?

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