

Global Carbon Dioxide Injection Pump Market Growth 2026-2032

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Abstracts

The global Carbon Dioxide Injection Pump market size is predicted to grow from US\$ 235 million in 2025 to US\$ 357 million in 2032; it is expected to grow at a CAGR of 6.2% from 2026 to 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 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.

LP Information, Inc. (LPI) ' newest research report, the “Carbon Dioxide Injection Pump Industry Forecast” looks at past sales and reviews total world Carbon Dioxide Injection Pump sales in 2025, providing a comprehensive analysis by region and market sector of projected Carbon Dioxide Injection Pump sales for 2026 through 2032. With Carbon Dioxide Injection Pump sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Carbon Dioxide Injection Pump industry.

This Insight Report provides a comprehensive analysis of the global Carbon Dioxide Injection Pump landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Carbon Dioxide Injection Pump portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Carbon Dioxide Injection Pump market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Carbon Dioxide Injection Pump and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Carbon Dioxide Injection Pump.

This report presents a comprehensive overview, market shares, and growth opportunities of Carbon Dioxide Injection Pump market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Centrifugal Injection Pump

Reciprocating Injection Pump

Diaphragm Injection Pump

Others

Segmentation by Pressure:

Low-pressure Type: ≤ 100 bar

Medium-pressure Type: 101–250 bar

High-pressure Type: > 250 bar

Segmentation by Application:

Carbon Capture, Utilization and Storage (CCUS)

Enhanced Oil Recovery (CO₂-EOR)

Chemical Processing

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Carbon Dioxide Injection Pump market?

What factors are driving Carbon Dioxide Injection Pump market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Carbon Dioxide Injection Pump market opportunities vary by end market size?

How does Carbon Dioxide Injection Pump break out by Type, by Application?

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