

# Reciprocating Compressor Market Expected to Reach \$7.2 Billion & Growing at a CAGR of 4.2% from 2023 to 2032

*The rapid industrialization across the world is boosting the market growth. In addition, the manufacturing segment is anticipated to grow with the highest CAGR*

WILMINGTON, DE, UNITED STATES, February 5, 2025 /EINPresswire.com/ -- The reciprocating



Through precision, innovation, and resilience, the construction and manufacturing industries build the frameworks and tools that shape our modern world”

compressor market has been experiencing significant growth over the past few years, driven by rapid industrialization and increasing demand across various industries. The market has shown a steady compound annual growth rate (CAGR), and this trend is expected to continue in the foreseeable future. The manufacturing sector, in particular, is anticipated to exhibit the highest CAGR during the forecast period.

AMR According to a recent report by Allied Market Research titled "Global Reciprocating Compressor Market Analysis and Forecast to 2032," the market

was valued at \$4.9 billion in 2022 and is projected to reach \$7.2 billion by 2032, growing at a CAGR of 4.2% from 2023 to 2032. A reciprocating compressor, also known as a piston compressor, is a positive displacement device used extensively in industrial applications. The compressor functions by utilizing the reciprocating motion of pistons to compress gases. The suction valve draws in air, creating a vacuum. The piston’s movement inside the cylinder initiates compression, and once the pressure inside the cylinder surpasses the pressure in the discharge pipe, the air is released into a storage tank through the discharge valve.

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Reciprocating compressors are widely used in various industries, including oil & gas, mining, automotive, pharmaceuticals, chemical plants, and refrigeration. These compressors are essential for applications such as drilling, compressed air filling, and painting. The demand for crude oil and renewable energy has significantly increased due to the rise in industrial machinery

usage across multiple sectors. The ongoing expansion of the manufacturing industry is further contributing to the market's growth. In 2021, global crude oil consumption reached approximately 95 million barrels per day, highlighting the increasing need for efficient machinery in the energy sector. As a result, compressors that can withstand harsh environmental conditions are expected to see higher demand in the global market. This trend presents lucrative opportunities for manufacturers in the reciprocating compressor industry.

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In 2022, the Asia-Pacific region dominated the global reciprocating compressor market in terms of revenue. The region's rapid industrialization, combined with the increasing demand for consumer products due to population growth, has fueled the need for reciprocating compressors. The automotive industry, a major sector in Asia-Pacific, is one of the largest consumers of reciprocating compressors, further boosting market expansion.

North America is also expected to witness substantial growth, exhibiting the highest CAGR during the forecast period. The region's increasing focus on industrial advancements and automation has significantly contributed to the demand for high-performance compressors. Meanwhile, the Latin America, Middle East, and Africa (LAMEA) region is experiencing rapid industrialization and urbanization, further propelling market growth. Countries within these regions are investing heavily in manufacturing and infrastructure development, creating new opportunities for reciprocating compressor manufacturers.

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Several key players operate in the reciprocating compressor market, including Ariel Corporation, Atlas Copco AB, Burckhardt Compression Holding AG, and Gardner Denver Holdings, Inc. These companies offer a diverse range of reciprocating compressors catering to various end-user industries such as oil & gas, pharmaceuticals, and chemical plants.

For example, in June 2022, Ariel Corporation, the world's largest manufacturer of separable reciprocating gas compressors, partnered with Hoerbiger, a leading provider of reciprocating gas compressor components. This strategic partnership focuses on developing non-lubricated compressor solutions for hydrogen compression applications. These solutions are aimed at the future hydrogen mobility market, including public transportation, fleet vehicles, trains, ships, and other high-volume, high-pressure vehicle fueling applications. Such collaborations and innovations are expected to drive further growth in the reciprocating compressor market.

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The reciprocating compressor market is segmented based on type, stage type, and end-user applications.

**By Type:** The market is classified into single-acting and double-acting compressors. In 2022, the double-acting segment dominated the market in terms of revenue, while the single-acting segment is projected to grow at a [significant CAGR](#) during the forecast period.

**By Stage Type:** The market is divided into single-stage and double-stage compressors. The double-stage segment held the largest market share in 2022, while the single-stage segment is anticipated to experience higher growth in the coming years.

**By End-User:** Major end-user industries include manufacturing, chemical plants, oil & gas, pharmaceuticals, and refrigeration. In 2022, the manufacturing sector accounted for the highest revenue share, whereas the chemical plant segment is expected to grow at a significant CAGR throughout the forecast period.

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Several factors contribute to the growing demand for reciprocating compressors:

**Industrial Expansion:** Rapid industrialization, particularly in emerging economies, is increasing the demand for high-performance compressors in various applications.

**Energy Sector Demand:** The rising global demand for crude oil and renewable energy sources necessitates efficient machinery, boosting the need for reciprocating compressors.

**Technological Advancements:** Innovations in [compressor technology](#), such as energy-efficient and low-maintenance models, are attracting new investments in the industry.

**Infrastructure Development:** Growing investments in infrastructure projects worldwide are creating opportunities for compressor manufacturers.

**Hydrogen Economy:** The shift toward hydrogen-based energy solutions presents a significant opportunity for the reciprocating compressor market.

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The double-acting segment held the largest revenue share in 2022, while the single-acting segment is expected to grow at a significant CAGR.

The double-stage compressor segment dominated the market in 2022, with single-stage compressors projected to experience higher growth.

The manufacturing industry remains the largest end-user of reciprocating compressors, with the chemical sector expected to grow substantially in the coming years.

Market players continue to focus on strategic partnerships and technological advancements to strengthen their market position.

David Correa  
Allied Market Research  
+ 1 800-792-5285

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