

Industrial Pneumatic Pump Market Forecasts to 2034 – Global Analysis By Product (Single-Acting Pneumatic Pumps, Double-Acting Pneumatic Pumps, Compact Pneumatic Pumps, Heavy-Duty Pneumatic Pumps, Light-Duty Pneumatic Pumps, Portable Pneumatic Pumps, Stationary Pneumatic Pumps and Other Products), Type, Material, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Industrial Pneumatic Pump Market is accounted for \$40.8 billion in 2026 and is expected to reach \$63.1 billion by 2034 growing at a CAGR of 5.6% during the forecast period. An industrial pneumatic pump is a type of pump that utilizes compressed air to move fluids. Pneumatic pumps are commonly used in various industrial applications where electricity may not be suitable or safe, or where a compressed air system is already in place. These pumps are known for their reliability, efficiency, and ability to handle different types of fluids, including liquids and slurries.

According to the Statistical Review of World Energy, in 2022, the global refining capacity accounted for 101902 thousand barrels daily, with an annual growth rate of 0.5% compared to the previous year.

Market Dynamics:

Driver:

Increasing trend toward industrial automation

Industrial automation is driven by the pursuit of efficiency and precision in manufacturing processes. Pneumatic pumps, being a part of automated systems, contribute to these goals by providing precise control over fluid transfer and handling. They are well-suited for integration into automated systems due to their ability to be easily controlled and monitored. They can be seamlessly integrated with programmable logic controllers (PLCs) and other automation technologies, allowing for centralized control of the entire manufacturing process. Their benefits such as increased efficiency, reduced labor costs, low maintenance requirements and minimized interruptions further fuels their market growth.

Restraint:

Technological complexities

As industrial processes become more complex and interconnected, integrating pneumatic pumps into existing systems or new automation setups can be challenging. Compatibility issues with other technologies and control systems may arise, leading to delays and increased costs. Also, retrofitting older systems to accommodate new technological features can be complex and may require additional investments. These elements hamper the market expansion.

Opportunity:

Growing customization & application-specific solutions

Industries have unique requirements based on their applications. Customization allows manufacturers to tailor pneumatic pump solutions to the specific needs of different sectors such as automotive, manufacturing, chemicals, and more. This flexibility makes pneumatic pumps more versatile and applicable across a wide range of industries. This can lead to cost savings for end-users. Customization even encourages innovation in pump design and technology. Overall, the ability to provide customized, application-specific solutions allows industrial pneumatic pump manufacturers to meet the diverse needs of various industries, enhance performance, and stay competitive in a rapidly evolving market.

Threat:

Fluctuating raw material prices

The primary effect of fluctuating raw material prices is the direct impact on the cost of production. Pneumatic pumps are often made from various materials, including metals and polymers. If the prices of these raw materials increase, it raises the overall manufacturing costs for pneumatic pump manufacturers. It affects investment decisions, pricing strategies and other external factors. Smaller companies in the market may be more vulnerable to fluctuations in raw material prices. They may lack the financial flexibility and negotiating power which thereby impedes the market growth.

Covid-19 Impact

The COVID-19 pandemic has drastically impacted the industrial sector. The pandemic led to disruptions in global supply chains, affecting the production and distribution of industrial equipment. Pneumatic pump manufacturers have faced challenges in sourcing components and raw materials, leading to delays and potential shortages. Sectors like automotive, aerospace, and oil and gas were significantly affected by the pandemic. These industries are major consumers of industrial pneumatic pumps; the market has been influenced accordingly.

The chemical transferring segment is expected to be the largest during the forecast period

The chemical transferring segment is estimated to have a lucrative growth, due to their efficiency, safety, and reliability. Pneumatic pumps are often considered safer for handling chemicals because they eliminate the risk of electric sparks that can occur with electric pumps. Pneumatic pumps are often more compact and portable than their electric counterparts. They can operate in harsh environmental conditions, such as extreme temperatures or dusty environments. This makes them suitable for a wide range of industrial settings.

The oil & gas industry segment is expected to have the highest CAGR during the forecast period

The oil & gas industry segment is anticipated to witness the highest CAGR growth during the forecast period. Industrial pneumatic pumps play a crucial role in the oil & gas industry by providing a reliable and efficient means of transferring fluids, handling various tasks such as pumping, mixing, and dispensing. They can be designed to meet stringent safety standards, including explosion-proof features, ensuring their safe

operation in hazardous areas where flammable gases may be present. They contribute to the efficiency, safety, and reliability of various processes in the Oil & Gas industry, making them essential components in this sector.

Region with largest share:

Asia Pacific is projected to hold the largest market share during the forecast period. The region is home to several industrialized nations with a strong focus on manufacturing. Ongoing infrastructure development projects in countries like China, India, and Southeast Asian nations drive the need for pumps in construction, water supply, and other applications. The automotive manufacturing sector, prevalent in countries like Japan and South Korea, is another significant market for industrial pneumatic pumps. Adoption of advanced technologies and automation in industrial processes may further drive the demand for more efficient and precise pneumatic pumping systems.

Region with highest CAGR:

Middle East & Africa is projected to have the highest CAGR over the forecast period. The Middle East, being a significant player in the global oil and gas industry, often drives the demand for industrial equipment, including pneumatic pumps. The growth of manufacturing industries in the region leads to an increased demand for various applications such as material handling, assembly lines, and more. Moreover, the need for wastewater treatment facilities is rising with the growing concerns about water scarcity. Further, ongoing infrastructure projects and industrialization efforts in the Middle East and Africa contribute to the demand for pneumatic pumps.

Key players in the market

Some of the key players profiled in the Industrial Pneumatic Pump Market include Ingersoll Rand, Hitachi, Atlas Copco, Kobe Steel, Kirloskar Pneumatic, Doosan Infracore, Danfoss, Kaeser Kompressoren, Sulzer, Siemens Energy, Nidec, Baker Hughes, Mitsubishi Heavy Industries, EBARA Corporation, Fusheng Group, QED Environmental Systems Inc., Saimona Compressor, Air Squared, Hubei Teweite Power Technology and Oasis Manufacturing.

Key Developments:

In August 2023, Michigan-based QED Environmental Systems Inc., a manufacturer of environmental products, has launched the Xact Count pneumatic pump cycle counter,

which monitors pump performance and maintenance cycles while estimating the volume of liquid being pumped. The cycle counter monitors water discharge rather than airflow, ensuring pumps are operating correctly.

In February 2023, Japan's biggest power generator and steelmaker Kobe Steel Ltd launched two power units -- a natural gas-fired and a coal-fired, respectively. The launch comes as Japan faces tight power capacity amid efforts to adhere to its carbon-neutrality goal of 2050.

Products Covered:

- Single-Acting Pneumatic Pumps
- Double-Acting Pneumatic Pumps
- Compact Pneumatic Pumps
- Heavy-Duty Pneumatic Pumps
- Light-Duty Pneumatic Pumps
- Portable Pneumatic Pumps
- Stationary Pneumatic Pumps
- Other Products

Types Covered:

- Reciprocating Pneumatic Pumps
- Rotary Pneumatic Pumps
- Diaphragm Pneumatic Pumps
- Peristaltic Pneumatic Pumps
- Centrifugal Pneumatic Pumps

Piston Pneumatic Pumps

Vane Pneumatic Pumps

Other Types

Materials Covered:

Aluminum

Bronze

Cast Iron

Plastic

Stainless Steel

Composite Material

Applications Covered:

Material Handling

Assembly Lines

Wellhead Control

Metering & Dosing

Chemical Transferring

Welding & Fabrication

Filtration Processes

Sewage Treatment

Clean-in-Place (CIP) Systems

Other Applications

End Users Covered:

Aerospace

Pharmaceuticals

Construction

Food & Beverage

Mining Industry

Automotive

Oil & Gas Industry

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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