

Fluid Power Equipment Market to Expand at 6.4% CAGR Through 2032 | Sparrows Group, Daikin, Bosch Rexroth, Kawasaki

Fluid Power Equipment Market sees steady growth driven by automation, industrial expansion, and energy-efficient system demand

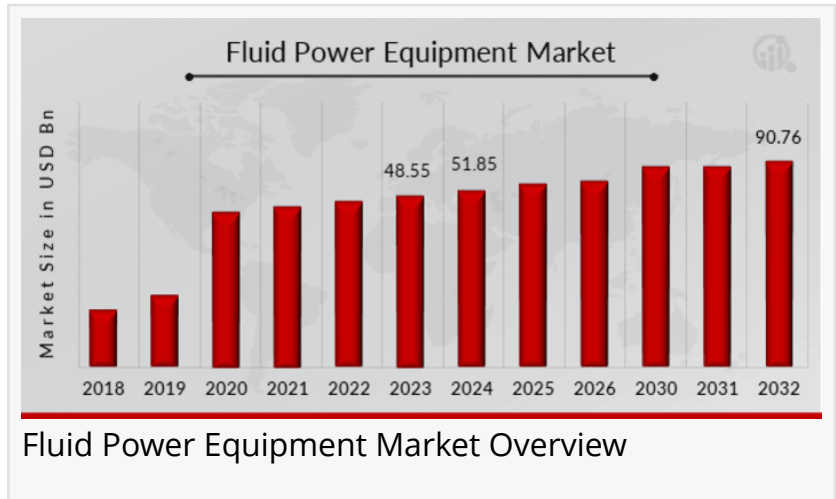
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According to a comprehensive research report by Market Research Future (MRFR), The [Fluid Power Equipment Market](#) Information by Type,

Component, Application and Region -

Forecast till 2032, The Global Fluid Power Equipment Market is estimated to reach a valuation of USD 90.76 Billion at a CAGR of 6.4% during the forecast period from 2024 to 2032.



Fluid Power Equipment Market Overview:

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Rising automation and industrial efficiency needs are propelling growth in the global fluid power equipment market”

MRFR

The fluid power equipment market has witnessed consistent growth over the past few decades, driven by rising industrial automation, increasing demand for energy-efficient equipment, and advancements in hydraulic and pneumatic technologies. Fluid power systems, which include hydraulic and pneumatic components such as pumps, valves, cylinders, motors, and filters, are critical in transmitting and controlling power

using pressurized fluids. These systems are widely used across industries such as manufacturing, construction, automotive, aerospace, agriculture, and oil & gas. With the growing emphasis on operational efficiency, productivity enhancement, and the adoption of Industry 4.0 technologies, the market for fluid power equipment continues to evolve, integrating smart solutions and advanced control mechanisms.

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Key Players

Bosch Rexroth

Eaton Corporation

Parker Hannifin

Kawasaki

Fluid-Power Equipment Inc

Sparrows Group

Fluid Systems Inc

AGILOX

Kent Fluid Power Ltd

Moog Inc

Daikin

Market Dynamics

The global fluid power equipment market is shaped by a variety of dynamics including technological advancements, evolving end-user requirements, regulatory compliance, and competitive pricing pressures. The market has seen an increasing shift toward the development of compact and lightweight components, digital controls, and the integration of IoT-enabled monitoring systems. These trends are being fueled by customer demands for improved machine performance, reduced energy consumption, and longer equipment lifespan. Additionally, the growing popularity of electro-hydraulic and electro-pneumatic systems is reshaping the traditional boundaries between mechanical and electronic control systems, creating new opportunities for innovation in design and functionality.

Another critical market dynamic is the trend toward sustainability. As environmental regulations become more stringent, manufacturers are seeking to reduce emissions and improve energy efficiency through the use of bio-based hydraulic fluids, recyclable materials, and energy recovery systems. Furthermore, companies are increasingly investing in research and

development to enhance the durability and reliability of fluid power equipment, which in turn reduces maintenance costs and downtime for end users.

Market Drivers

A major driver for the fluid power equipment market is the increased demand for automation in industrial processes. Automated systems require precise and efficient control of motion and force, which fluid power systems can provide. The growth of manufacturing sectors in emerging economies, particularly in Asia-Pacific, is contributing significantly to this trend. Automation improves operational efficiency and reduces labor costs, encouraging more companies to adopt fluid power technologies.

The construction and mining industries also represent a substantial driver. These sectors rely heavily on hydraulic-powered machinery such as excavators, loaders, and cranes. With growing infrastructure development projects in developing countries and renovation of aging infrastructure in developed nations, the demand for hydraulic components continues to rise.

In addition, technological innovation plays a pivotal role. The advent of smart fluid power equipment embedded with sensors and control software allows for real-time performance monitoring and predictive maintenance. This not only boosts productivity but also minimizes unexpected equipment failures. The shift toward Industry 4.0 is prompting companies to upgrade to smart systems, further propelling market growth.

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Market Restraints

Despite its promising outlook, the fluid power equipment market faces several restraints. One of the most prominent is the high initial cost of advanced fluid power systems. Although these systems offer long-term savings through energy efficiency and lower maintenance, the upfront investment can be a deterrent, especially for small- and medium-sized enterprises.

Another significant restraint is the risk of fluid leakage in hydraulic systems, which can lead to environmental hazards, safety issues, and costly repairs. In pneumatic systems, compressed air can be expensive to generate and inefficient if not properly maintained. The complexity of installation and operation of advanced fluid power systems can also hinder adoption in certain applications or regions lacking skilled labor.

Moreover, competition from electric actuators and drives presents a challenge. These alternatives offer cleaner, quieter, and more energy-efficient operations, making them increasingly attractive in applications where precision and environmental considerations are

prioritized. As the performance gap between traditional fluid power and electric systems narrows, manufacturers must continue innovating to maintain competitiveness.

Fluid Power Equipment Market Segmentation

Fluid Power Equipment Type Outlook

Hydraulic

Pneumatic

Fluid Power Equipment Component Outlook

Pumps

Motors

Valves

Cylinder

Steel Tube and Compression Fitting

Accumulators and Accessories

Fluid Power Equipment Application Outlook

Construction

Automotive

Oil & Gas

Food Processing

Packaging

Semiconductor

Others

Fluid Power Equipment Regional Outlook

North America

US

Canada

Europe

Germany

France

UK

Italy

Spain

Rest of Europe

Asia-Pacific

China

Japan

India

Australia

South Korea

Australia

Rest of Asia-Pacific

Rest of the World

Middle East

Africa

Latin America

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Regional Analysis

The North American fluid power equipment market is mature and technologically advanced, supported by strong demand from industries such as aerospace, defense, automotive, and oil & gas. The U.S. leads the region due to its large manufacturing base, continuous investment in automation, and the presence of major fluid power equipment manufacturers. There is also a growing trend toward retrofitting older machinery with modern hydraulic and pneumatic systems to improve performance and compliance with environmental regulations.

Europe is another significant region in the global market, with countries like Germany, Italy, and France at the forefront of innovation. The European market is characterized by its emphasis on energy efficiency, sustainability, and smart manufacturing. The automotive and industrial machinery sectors remain strong consumers of fluid power equipment. Additionally, the European Union's focus on reducing carbon emissions has prompted manufacturers to develop more eco-friendly fluid power solutions.

The Asia-Pacific region is expected to witness the fastest growth during the forecast period, driven by rapid industrialization, urbanization, and infrastructure development. China, India, Japan, and South Korea are key contributors to market expansion. The surge in manufacturing activity and investment in automation technologies are propelling the adoption of fluid power equipment. China, in particular, holds a dominant position due to its massive industrial base and government support for smart factory initiatives.

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