

Fluid Power Equipment Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Component (Pumps, Motors, Valves, Cylinder, Steel Tube & Compression Fitting, Accumulators, Accessories, Others), By Application (Construction, Automotive, Oil & Gas, Food Processing, Packaging, Semiconductor, Others), By Region, By Competition, 2020-2030F

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Abstracts

Market Overview

The Global Fluid Power Equipment Market was valued at USD 70.3 billion in 2024 and is projected to reach USD 94.5 billion by 2030, growing at a CAGR of 4.9% during the forecast period. The market's expansion is driven by the rising adoption of industrial automation and the advancement of Industry 4.0 technologies, which emphasize efficient, precise, and intelligent motion control solutions. Fluid power systems, including hydraulics and pneumatics, are widely used across sectors such as construction, automotive, food processing, and semiconductors. Additionally, the push for energy efficiency and the rapid pace of infrastructure development in emerging economies, especially across Asia-Pacific, are accelerating demand for high-performance and durable fluid power components.

Key Market Drivers

Rising Industrial Automation and Integration of Industry 4.0 Technologies

The shift toward automation and smart manufacturing is significantly propelling the demand for fluid power equipment. Industries are rapidly transitioning to automated systems to improve precision, productivity, and operational safety. Components like hydraulic pumps, pneumatic cylinders, and directional control valves are integral to these automated systems due to their ability to deliver consistent force, speed, and adaptability under challenging industrial conditions. The adoption of Industry 4.0 has further transformed traditional equipment by incorporating digital features such as IoT sensors, predictive analytics, and cloud-based control platforms. As a result, manufacturers now favor electro-hydraulic and electro-pneumatic systems that combine mechanical robustness with electronic intelligence, supporting real-time diagnostics, efficiency monitoring, and predictive maintenance to reduce downtime and enhance performance.

Key Market Challenges

High Energy Consumption and Operational Inefficiencies

A key challenge affecting the global fluid power equipment market is the relatively high energy usage and operational inefficiencies inherent in hydraulic and pneumatic systems. Compared to fully electric or mechanical systems, fluid power solutions often suffer from energy losses due to friction, leakage, throttling, and air compression inefficiencies. Hydraulic systems can lose substantial energy through heat generation, while pneumatic systems frequently waste energy through compressed air leaks. These inefficiencies increase energy bills and operational costs, especially in regions with high utility tariffs. As global industries focus more on sustainability and energy conservation, these drawbacks make fluid systems less favorable unless complemented by advanced control mechanisms and energy-efficient designs.

Key Market Trends

Integration of Smart Technologies and Digitalization

A growing trend in the fluid power equipment industry is the adoption of smart technologies to enhance system intelligence, reliability, and efficiency. The integration of IoT, AI, and machine learning into traditional hydraulic and pneumatic systems is reshaping the way equipment is monitored and maintained. Embedded sensors in pumps, valves, and actuators now collect real-time operational data on parameters like pressure, flow, and temperature. This data is transmitted to centralized or cloud-based platforms, enabling remote diagnostics, predictive maintenance, and performance

optimization. Such smart solutions are helping industries extend the lifespan of their systems, reduce unexpected failures, and increase operational uptime, aligning fluid power technology with the broader goals of digital transformation.

Key Market Players

Parker Hannifin Corporation

Eaton Corporation plc

Bosch Rexroth AG

SMC Corporation

HYDAC International GmbH

Daikin Industries, Ltd.

Festo SE & Co. KG

Moog Inc.

Report Scope:

In this report, the Global Fluid Power Equipment Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Fluid Power Equipment Market, By Component:

Pumps

Motors

Valves

Cylinder

Steel Tube & Compression Fitting

Accumulators

Accessories

Others

Fluid Power Equipment Market, By Application:

Construction

Automotive

Oil & Gas

Food Processing

Packaging

Semiconductor

Others

Fluid Power Equipment Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

Asia Pacific

China

India

Japan

South Korea

Australia

South America

Brazil

Colombia

Argentina

Middle East & Africa

Saudi Arabia

UAE

South Africa

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Fluid Power Equipment Market.

Available Customizations

Global Fluid Power Equipment Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, and Trends

4. VOICE OF CUSTOMER

5. GLOBAL FLUID POWER EQUIPMENT MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Component (Pumps, Motors, Valves, Cylinder, Steel Tube & Compression Fitting, Accumulators, Accessories, Others)
 - 5.2.2. By Application (Construction, Automotive, Oil & Gas, Food Processing, Packaging, Semiconductor, Others)

- 5.2.3. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)
- 5.3. By Company (2024)
- 5.4. Market Map

6. NORTH AMERICA FLUID POWER EQUIPMENT MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Component
 - 6.2.2. By Application
 - 6.2.3. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Fluid Power Equipment Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Component
 - 6.3.1.2.2. By Application
 - 6.3.2. Canada Fluid Power Equipment Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Component
 - 6.3.2.2.2. By Application
 - 6.3.3. Mexico Fluid Power Equipment Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Component
 - 6.3.3.2.2. By Application

7. EUROPE FLUID POWER EQUIPMENT MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Component

7.2.2. By Application

7.2.3. By Country

7.3. Europe: Country Analysis

7.3.1. Germany Fluid Power Equipment Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Component

7.3.1.2.2. By Application

7.3.2. France Fluid Power Equipment Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Component

7.3.2.2.2. By Application

7.3.3. United Kingdom Fluid Power Equipment Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Component

7.3.3.2.2. By Application

7.3.4. Italy Fluid Power Equipment Market Outlook

7.3.4.1. Market Size & Forecast

7.3.4.1.1. By Value

7.3.4.2. Market Share & Forecast

7.3.4.2.1. By Component

7.3.4.2.2. By Application

7.3.5. Spain Fluid Power Equipment Market Outlook

7.3.5.1. Market Size & Forecast

7.3.5.1.1. By Value

7.3.5.2. Market Share & Forecast

7.3.5.2.1. By Component

7.3.5.2.2. By Application

8. ASIA PACIFIC FLUID POWER EQUIPMENT MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

- 8.2.1. By Component
- 8.2.2. By Application
- 8.2.3. By Country
- 8.3. Asia Pacific: Country Analysis
 - 8.3.1. China Fluid Power Equipment Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Component
 - 8.3.1.2.2. By Application
 - 8.3.2. India Fluid Power Equipment Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Component
 - 8.3.2.2.2. By Application
 - 8.3.3. Japan Fluid Power Equipment Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Component
 - 8.3.3.2.2. By Application
 - 8.3.4. South Korea Fluid Power Equipment Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Component
 - 8.3.4.2.2. By Application
 - 8.3.5. Australia Fluid Power Equipment Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Component
 - 8.3.5.2.2. By Application

9. MIDDLE EAST & AFRICA FLUID POWER EQUIPMENT MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Component

9.2.2. By Application

9.2.3. By Country

9.3. Middle East & Africa: Country Analysis

9.3.1. Saudi Arabia Fluid Power Equipment Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Component

9.3.1.2.2. By Application

9.3.2. UAE Fluid Power Equipment Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Component

9.3.2.2.2. By Application

9.3.3. South Africa Fluid Power Equipment Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Component

9.3.3.2.2. By Application

10. SOUTH AMERICA FLUID POWER EQUIPMENT MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Component

10.2.2. By Application

10.2.3. By Country

10.3. South America: Country Analysis

10.3.1. Brazil Fluid Power Equipment Market Outlook

10.3.1.1. Market Size & Forecast

10.3.1.1.1. By Value

10.3.1.2. Market Share & Forecast

10.3.1.2.1. By Component

10.3.1.2.2. By Application

10.3.2. Colombia Fluid Power Equipment Market Outlook

10.3.2.1. Market Size & Forecast

10.3.2.1.1. By Value

10.3.2.2. Market Share & Forecast

10.3.2.2.1. By Component

10.3.2.2.2. By Application

10.3.3. Argentina Fluid Power Equipment Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Component

10.3.3.2.2. By Application

11. MARKET DYNAMICS

11.1. Drivers

11.2. Challenges

12. MARKET TRENDS AND DEVELOPMENTS

12.1. Merger & Acquisition (If Any)

12.2. Product Launches (If Any)

12.3. Recent Developments

13. COMPANY PROFILES

13.1. Parker Hannifin Corporation

13.1.1. Business Overview

13.1.2. Key Revenue and Financials

13.1.3. Recent Developments

13.1.4. Key Personnel

13.1.5. Key Product/Services Offered

13.2. Eaton Corporation plc

13.3. Bosch Rexroth AG

13.4. Bosch Rexroth AG

13.5. HYDAC International GmbH

13.6. Daikin Industries, Ltd.

13.7. Festo SE & Co. KG

13.8. Moog Inc.

14. STRATEGIC RECOMMENDATIONS

15. ABOUT US & DISCLAIMER

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