

Hydraulic Cylinders Market Size, Share & Forecast Analysis 2023-2030: A US\$20.09 Bn Market by 2030

Hydraulic Cylinders Market Size 2024 | Share by Top Companies, Trends, In-Depth Analysis and Growth Forecast 2030

WASHINGTON, D.C, DISTRICT OF COLUMBIA, UNITED STATES, February 7, 2024 /EINPresswire.com/ -- Hydraulic

Cylinders are mechanical devices that use pressurized hydraulic fluid to produce linear motion and force.

Hydraulic Cylinders consist of a cylinder barrel, a piston, a piston rod, and a seal. Hydraulic Cylinders are widely used in various industries, such

as construction, mining, agriculture, manufacturing, and oil and gas, for applications such as lifting, pushing, pulling, and bending. The Global [Hydraulic Cylinders Market size](#) was valued at USD 14.57 Billion in 2022 and is expected to grow at a compound annual growth rate (CAGR) of 4.10% from 2023 to 2030, reaching USD 20.09 Billion by 2030.

The growth of the Hydraulic Cylinders Market can be attributed to the increasing demand for Hydraulic Cylinders from the global industrial and mobile equipment sectors. The key factors driving this demand are the rising investment in infrastructure development and construction activities, the growing adoption of material handling and agricultural equipment, the expanding mining and oil and gas exploration activities, and the emergence of new technologies and innovations in the field of Hydraulic Cylinders. Moreover, the development of new markets and applications for Hydraulic Cylinders, such as aerospace, defense, and marine, has also created new opportunities for the market players.

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Market Dynamics



The industrial and mobile equipment sectors are driven by the rising investment in infrastructure development and construction activities, especially in the emerging economies, such as China, India, Brazil, and Mexico, where the demand for heavy construction and mining vehicles, such as excavators, loaders, cranes, and dump trucks, is high. The industrial and mobile equipment sectors are also driven by the growing adoption of material handling and agricultural equipment, such as forklifts, tractors, harvesters, and balers, which require Hydraulic Cylinders for various operations, such as lifting, loading, and steering. The industrial and mobile equipment sectors are also driven by the expanding mining and oil and gas exploration activities, which require Hydraulic Cylinders for drilling, fracking, and extraction purposes.

The development of new technologies and innovations in the field of Hydraulic Cylinders, such as smart cylinders, electro-Hydraulic Cylinders, and composite cylinders, which offer better performance, efficiency, and reliability than conventional Hydraulic Cylinders. Smart cylinders are Hydraulic Cylinders that are equipped with sensors, actuators, and controllers, which enable the monitoring and control of the cylinder parameters, such as pressure, temperature, position, and speed. Electro-Hydraulic Cylinders are Hydraulic Cylinders that are integrated with electric motors, which eliminate the need for hydraulic pumps, valves, and hoses, and reduce the energy consumption and noise emission of the hydraulic system. Composite cylinders are Hydraulic Cylinders that are made of lightweight and durable materials, such as carbon fiber, which reduce the weight and corrosion of the cylinder, and increase the load capacity and lifespan of the cylinder.

Top Players in The Global Hydraulic Cylinders Market Report Scope:

- Parker-Hannifin Corporation (US)
- Caterpillar (US)
- KYB Corporation (Japan)
- Bosch Rexroth (Germany)
- Eaton (Ireland)
- Enerpac Tool Group (US)
- SMC Corporation (Japan)
- HYDAC (Germany)
- Wipro Enterprises (India)
- Jiangsu Hengli Hydraulic Co. Ltd. (China)

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The Major Restraints of The Market Are:

The high cost of Hydraulic Cylinders, which increases the operational and maintenance expenses for the end-users. The cost of Hydraulic Cylinders depends on various factors, such as the type

and size of the cylinder, the material and quality of the components, the design and specification of the cylinder, and the research and development of the cylinder. The cost of Hydraulic Cylinders also varies across regions, depending on the availability and affordability of the raw materials, the infrastructure and facilities, and the regulations and taxes.

The lack of adequate standardization and regulation for Hydraulic Cylinders in some regions, especially in the developing and underdeveloped regions, where the quality and safety of the Hydraulic Cylinders are not ensured. The lack of standardization and regulation may also lead to the prevalence of counterfeit and substandard Hydraulic Cylinders, which may pose a threat to the performance and functionality of the hydraulic system, and cause damage and injury to the equipment and the operators. The lack of standardization and regulation may also create barriers and challenges for the entry and expansion of the market players in these regions.

Top Trends

The increasing adoption of smart Hydraulic Cylinders, which are equipped with sensors, actuators, and controllers, which enable the monitoring and control of the cylinder parameters, such as pressure, temperature, position, and speed. Smart Hydraulic Cylinders also enable the end-users to track and trace the Hydraulic Cylinders, optimize the performance and efficiency of the hydraulic system, and enhance the maintenance and reliability of the Hydraulic Cylinders.

The increasing use of composite Hydraulic Cylinders, which are made of lightweight and durable materials, such as carbon fiber, which reduce the weight and corrosion of the cylinder, and increase the load capacity and lifespan of the cylinder. Composite Hydraulic Cylinders also offer better thermal and mechanical properties than conventional Hydraulic Cylinders, and reduce the energy consumption and noise emission of the hydraulic system.

The increasing application of electro-Hydraulic Cylinders, which are integrated with electric motors, which eliminate the need for hydraulic pumps, valves, and hoses, and reduce the complexity and cost of the hydraulic system. Electro-Hydraulic Cylinders also offer better precision and accuracy than conventional Hydraulic Cylinders, and enable the end-users to adjust the speed and force of the cylinder, according to the application requirements.

Top Report Findings

- According to a report by Vantage Market Research, the Global Hydraulic Cylinders Market size was valued at USD 14.57 Billion in 2022 and is expected to grow at a CAGR of 4.10% from 2023 to 2030, reaching USD 20.09 Billion by 2030
- The welded Hydraulic Cylinders segment accounted for the largest share of the Hydraulic Cylinders Market in 2023, followed by the tie-rod Hydraulic Cylinders and telescopic Hydraulic Cylinders segments. The welded Hydraulic Cylinders segment is expected to maintain its dominance throughout the forecast period, owing to the high demand for welded Hydraulic Cylinders from the industrial and mobile equipment sectors, due to their high strength, durability, and compactness.

- The industrial equipment segment accounted for the largest share of the Hydraulic Cylinders Market in 2023, followed by the mobile equipment and others segments. The industrial equipment segment is expected to maintain its dominance throughout the forecast period, owing to the high demand for Hydraulic Cylinders from the manufacturing, oil and gas, power generation, and metal processing industries, for applications such as pressing, stamping, forging, and extrusion.
- Asia Pacific accounted for the largest share of the Hydraulic Cylinders Market in 2023, followed by North America and Europe. Asia Pacific is expected to maintain its dominance throughout the forecast period, owing to the following factors:
 - The presence of a large and diverse population in the region, which creates a huge demand and potential for Hydraulic Cylinders, catering to the different needs and preferences of the end-users. The end-users in Asia Pacific are more influenced by the economic and industrial development, and the infrastructure and construction activities, in the region, and prefer to buy Hydraulic Cylinders that are cost-effective, efficient, and reliable.
 - The rapid economic growth and development in the region, which increases the disposable income and purchasing power of the end-users, and enables them to spend more on Hydraulic Cylinders. The economic growth and development also improve the infrastructure and facilities in the region, such as the transportation, distribution, and storage of Hydraulic Cylinders.

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Challenges

The risk of product failure and leakage, due to the wear and tear of the hydraulic cylinder components, such as the seal, piston, and rod, which may affect the performance and functionality of the hydraulic system, and cause damage and injury to the equipment and the operators. The risk of product failure and leakage may also result from the exposure of the hydraulic cylinder to harsh and extreme environmental conditions, such as high temperature, pressure, and vibration, which may degrade the material and quality of the cylinder.

The impact of the COVID-19 pandemic on the Hydraulic Cylinders Market, which has disrupted the supply chain and demand for the Hydraulic Cylinders, and created operational and logistical challenges for the market players. The COVID-19 pandemic has affected the production, distribution, and consumption of Hydraulic Cylinders, due to the lockdown measures, travel restrictions, and social distancing norms, imposed by the governments and authorities across the world. The COVID-19 pandemic has also affected the end-user industries, such as construction, mining, agriculture, manufacturing, and oil and gas, which have reduced their activities and operations, and lowered their demand for Hydraulic Cylinders.

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Opportunities

The expansion of the e-commerce and online platforms, which offer a convenient and cost-effective channel for the distribution and delivery of Hydraulic Cylinders to the end-users. The e-commerce and online platforms have witnessed a significant growth in recent years, due to the increasing penetration of the internet and smartphones, the changing consumer preferences and behavior, and the impact of the COVID-19 pandemic. The e-commerce and online platforms provide a wide range of Hydraulic Cylinders, such as welded, tie-rod, telescopic, and mill type, to the end-users, at their doorstep, with minimal contact and hassle. The e-commerce and online platforms also enable the end-users to compare and choose the Hydraulic Cylinders, based on their price, quality, reviews, and ratings.

The emergence of new markets and applications for Hydraulic Cylinders, such as aerospace, defense, and marine, which require specialized and customized Hydraulic Cylinders to cater to the specific needs and requirements of these sectors. The aerospace sector is driven by the increasing demand for commercial and military aircraft, which require Hydraulic Cylinders for various functions, such as landing gear, flight control, and braking. The defense sector is driven by the increasing demand for armored and combat vehicles, such as tanks, armored personnel carriers, and infantry fighting vehicles, which require Hydraulic Cylinders for various operations, such as turret, suspension, and weapon systems. The marine sector is driven by the increasing demand for ships and submarines, which require Hydraulic Cylinders for various applications, such as steering, propulsion, and hatch.

Key Questions Answered in Hydraulic Cylinders Reports:

- What is the expected growth rate of the Hydraulic Cylinders Market in the next five years?
- Which are the major segments driving market growth?
- What are the key factors influencing the demand for Hydraulic Cylinders in different regions?
- Who are the leading players in the market, and what are their growth strategies?
- What are the latest technological advancements in Hydraulic Cylinders?
- How are environmental regulations impacting the market?
- What are the emerging trends that will shape the future of the Hydraulic Cylinders Market?

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Regional Analysis:

The Asia Pacific region is expected to be the fastest-growing market for Hydraulic Cylinders, driven by factors like rapid urbanization, rising industrial output, and government investments in infrastructure development. China, India, and Japan are the key markets in the region, with China expected to remain the dominant player. The growing demand for construction equipment, agricultural machinery, and material handling equipment in these countries is fueling the

regional market growth.

This overview provides a glimpse into the dynamic and promising world of the Hydraulic Cylinders Market. As technology advances, regulations evolve, and new applications emerge, this market is poised for continued growth and innovation, shaping the way we move, build, and manufacture in the years to come.

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