

# Hydraulic Cylinders Market is Anticipated to Reach \$21.2 Bn by 2030 | 4.2% CAGR: Actuant Corporation, Caterpillar

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Hydraulic cylinders remain pivotal components driving efficiency and productivity across various industries. "

*Allied Market Research*

Research published a report, titled, "[Hydraulic Cylinders Market](#) by Function (Single Acting Cylinders and Double Acting Cylinder), Design (Tie-Rod Cylinders and Welded Cylinders), and Bore Size (Less Than 50mm, 51mm to 100mm, 101mm to 150mm, and Greater Than 151mm): Global Opportunity Analysis and Industry Forecast, 2021–2030". According to the report, the global hydraulic cylinders industry generated \$14.07 billion in 2020, and is

anticipated to generate \$21.2 billion by 2030, witnessing a CAGR of 4.2% from 2021 to 2030.

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## Prime determinants of growth

Developments in the global construction sector, rapid industrialization coupled with increasing infrastructural spending, and retrofit & replacement of existing equipment drive the growth of the global hydraulic cylinders market. However, hydraulic cylinders are costlier as compared to pneumatic cylinders, which hinders the market growth. On the other hand, extensive range of applications and increase in demand for material handling equipment presents new opportunities in the coming years.

Hydraulic cylinders are mechanical devices that convert hydraulic energy into linear mechanical force and motion. The global hydraulic cylinders market size is driven by rising infrastructure development and modernization efforts. They play a crucial role in various industrial applications where heavy lifting, pushing, pulling, or holding tasks are required. The basic principle behind hydraulic cylinders is the use of pressurized hydraulic fluid to generate force, typically using a piston enclosed within a cylindrical housing.

The main components of a hydraulic cylinder include a cylinder barrel, piston, piston rod, seals, and hydraulic fluid. The cylinder barrel serves as the main body enclosing the hydraulic fluid, while the piston divides the cylinder into two chambers: the rod side and the cap side. The piston rod extends from the piston and transfers the generated force to the external load or machinery. Seals are essential for maintaining the integrity of the hydraulic fluid within the cylinder and preventing leakage. The hydraulic cylinders market forecast indicates a steady increase in demand, driven by the expansion of the industrial and construction sectors.

Hydraulic cylinders operate based on Pascal's law, which states that when pressure is applied to a confined fluid, it exerts equal pressure in all directions. In a hydraulic cylinder, hydraulic fluid is pumped into one side of the cylinder, causing the piston to move in the desired direction. The force generated by the hydraulic fluid acting on the piston is transmitted through the piston rod to the external load, enabling linear motion. The [hydraulic cylinders market growth](#) is being driven by advancements in technology and increasing investments in infrastructure projects globally.

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These cylinders come in various types and designs to suit different applications, including single-acting cylinders, double-acting cylinders, telescopic cylinders, and differential cylinders. Single-acting cylinders exert force in one direction only, while double-acting cylinders can apply force in both directions by pressurizing fluid alternately on either side of the piston. Telescopic cylinders feature nested piston rods, allowing for a longer stroke length in a compact design. Differential cylinders utilize different piston areas to achieve varying speeds or forces.

hydraulic cylinders find extensive use across industries such as construction, manufacturing, agriculture, automotive, aerospace, and marine. They are employed in equipment such as hydraulic presses, forklifts, cranes, loaders, excavators, agricultural machinery, and aircraft landing gear. Their versatility, reliability, and ability to generate high forces make hydraulic cylinders indispensable in modern industrial operations. The hydraulic cylinders market share is expected to grow significantly over the next few years owing to increasing demand in the construction and manufacturing industries.

The increasing demand for construction machinery, such as excavators, loaders, and cranes, drives the demand for hydraulic cylinders. Urbanization and infrastructure development projects contribute significantly to this growth. Modern agricultural equipment, including tractors, combine harvesters, and plows, relies heavily on hydraulic cylinders for efficient operation. The push for higher agricultural productivity and mechanization in farming is a major market driver.

The double acting segment to maintain its leadership status throughout the forecast period

Based on function, the double acting segment held the highest market share in 2020, accounting

for more than three-fifths of the global hydraulic cylinders market, and is estimated to maintain its leadership status throughout the forecast period. Single acting cylinders is simple, required less maintenance and is economical as compared to double acting cylinders, which drive the growth of the market. Moreover, the single acting segment is projected to manifest the highest CAGR of 6.5% from 2021 to 2030. This is because double-acting hydraulic cylinder is ideal equipment for machine handling equipment in automotive sector.

The 51mm to 100mm segment to maintain its lead position during the forecast period

Based on bore size, the 51mm to 100mm segment accounted for the largest share in 2020, contributing to nearly one-third of the global hydraulic cylinders market, and is projected to maintain its lead position during the forecast period. Moreover, the same segment is expected to portray the largest CAGR of 6.5% from 2021 to 2030, owing to an increase in the demand for hydraulic cylinder with bore size 51 mm to 100 mm across the end users.

Asia-Pacific, followed by North America, to maintain its dominance by 2030

Based on region, Asia-Pacific, followed by North America, held the highest market share in terms of revenue 2020, accounting for nearly two-fifths of the global hydraulic cylinders market, owing to rise in demand for hydraulic cylinder in the construction industry. Moreover, the LAMEA region is expected to witness the fastest CAGR of 5.0% during the forecast period.

#### Leading Market Players

Actuant Corporation  
Caterpillar Inc.  
Eaton Corporation Plc  
JARP Industries Inc.  
Hengli Hydraulic  
Kawasaki Heavy Industries Limited  
Parker Hannifin Corporation  
Robert Bosch GmbH  
Texas Hydraulics Inc.  
Wipro Limited.

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Contact:

David Correa

1209 Orange Street,

Corporation Trust Center,

Wilmington, New Castle,

Delaware 19801 USA.

Int'l: +1-503-894-6022

Toll Free: +1-800-792-5285

UK: +44-845-528-1300

India (Pune): +91-20-66346060

Fax: +1-800-792-5285

[help@alliedmarketresearch.com](mailto:help@alliedmarketresearch.com)

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David Correa

Allied Market Research

+ + + + + + + + + + +1 800-792-5285

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