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Hydraulic Cylinder Market (By Product, Bore Size, Function, Application, End Use, and Region), Key Company Profiles, Competitive Landscape, Market Dynamics, Trends and Recent Developments – Global Forecast to 2035

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Abstracts

The global hydraulic cylinder market was valued at US$ 16.18 billion in 2025 and is projected to reach US$ 25.32 billion by 2035, driven by sustained demand for high-force linear actuation across mobile and industrial equipment. Hydraulic cylinders convert hydraulic pressure into linear force and motion, enabling lifting, pushing, pulling, steering, clamping, stabilization, and positioning operations under demanding load conditions. The market encompasses single-acting and double-acting cylinders, including welded, tie-rod, telescopic and mill-type configurations designed to meet varying pressure, stroke, mounting, and operating requirements. Their ability to deliver high force within compact assemblies makes them indispensable across equipment requiring load stability, controlled movement, durability, and reliable performance under challenging operating conditions.

Market demand is primarily anchored in construction and mining equipment, agricultural machinery, material handling systems, and industrial machinery, where hydraulic cylinders perform critical functions across excavators, loaders, cranes, tractors, harvesters, forklifts, presses, lifting platforms, and production equipment. Expanding infrastructure development, mining activities, agricultural mechanization, warehouse automation, and industrial manufacturing continue to support equipment deployment and cylinder demand. In addition to new equipment installations, the growing installed base of hydraulic machinery generates recurring demand for replacement cylinders, refurbishment, seal replacement, and maintenance services. These factors provide the market with a broad demand foundation across OEM and aftermarket channels, while

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application-specific operating requirements sustain demand for customized cylinders capable of performing under high pressure, vibration, contamination, extreme temperatures, and corrosive environments.

The market is gradually shifting toward higher-performance and application-engineered cylinder configurations as OEMs increasingly prioritize force density, durability, controllability, sealing performance, equipment uptime, and lifecycle operating costs. Welded cylinders remain widely preferred across heavy-duty mobile applications because of their robust construction, compact design, and suitability for demanding operating environments, while tie-rod cylinders continue to serve industrial applications where modularity, maintenance accessibility, and cost efficiency are important. Demand for large-bore, high-pressure, corrosion-resistant, and customized cylinders is also increasing across specialized machinery and severe-duty applications. This transition is strengthening the importance of engineering capabilities, product reliability, manufacturing flexibility, and aftermarket support, shifting competitive differentiation beyond standardized component pricing toward application performance and long-term equipment productivity.

Technological advancement is further transforming hydraulic cylinders through the integration of sensors, position feedback, electronically controlled hydraulics, and condition-monitoring capabilities. Smart hydraulic cylinders enable equipment operators to monitor piston position, improve movement precision, enhance load control, optimize operating cycles, and support predictive maintenance. The incorporation of sensor-enabled assemblies, integrated valves, anti-rotation mechanisms, multi-chamber designs, and digital monitoring technologies is creating opportunities for higher-value cylinder solutions across automated industrial systems, advanced construction machinery, mining equipment, and precision material handling applications. However, adoption remains dependent on equipment complexity, integration requirements, cost considerations, and the measurable benefits of improved uptime, energy efficiency, and operating performance, making smart cylinders particularly attractive in premium machinery and applications where precision and reliability are critical.

The competitive landscape comprises established hydraulic equipment manufacturers, specialized cylinder producers, and regional suppliers competing through product quality, engineering expertise, manufacturing scale, OEM relationships, customization, distribution networks, and aftermarket capabilities. Major players include Bosch Rexroth AG, Parker Hannifin Corporation, Jiangsu Hengli Hydraulic Co., Ltd., KYB Corporation, Danfoss Power Solutions, Eaton Corporation, and Caterpillar Inc., alongside companies such as Liebherr, HYDAC, Wipro Infrastructure Engineering, Weber-Hydraulik,

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Montanhydraulik, Pacoma, and Enerpac. Market participants are increasingly focusing on product development, strategic collaborations, acquisitions, manufacturing expansion, and customized hydraulic solutions to strengthen market positioning. At the same time, cylinder manufacturing economics remain exposed to steel price volatility, precision component costs, machining requirements, supply-chain conditions, and maintenance-related challenges, while leakage concerns and the gradual adoption of electromechanical actuators influence technology selection in certain applications. Over the forecast period, manufacturers combining cost-efficient production, application-specific engineering, smart hydraulic integration, product reliability, and lifecycle service capabilities are expected to be better positioned to capture opportunities as OEMs increasingly prioritize automation, productivity, energy efficiency, and advanced equipment performance.

Recent Developments

In August 2026, Montanhydraulik Group acquired the operating business of KMF Kemptener Maschinenfabrik GmbH through an asset transaction, effective August 1, 2026. The acquisition expands Montanhydraulik’s product portfolio with compact hydraulic cylinders for mobile applications, particularly in agricultural and construction machinery. This complements its existing focus on large-scale, high-performance cylinders, broadens its coverage across mobile hydraulic applications, and strengthens its ability to serve a wider range of equipment manufacturers and customer segments.

In April 2026, Wipro Hydraulics signed a definitive agreement to acquire Italy-based Indeco Ind Spa, expanding its portfolio beyond hydraulic cylinders into hydraulic attachments for construction, demolition, and recycling applications. Indeco manufactures hydraulic hammers, mulching heads, shears, pulverizers, and other specialized attachments. The proposed acquisition broadens Wipro's product offering, strengthens its manufacturing and distribution footprint, and provides access to adjacent equipment markets, supporting its strategy to expand its hydraulics business and strengthen its position across construction and heavy equipment applications.

In June 2025, Jiangsu Hengli Hydraulic Co., Ltd. inaugurated its USD 325 million manufacturing facility in Nuevo Le?n, Mexico. The first phase, backed by a USD 200 million investment, focuses on hydraulic cylinders for excavators, aerial platforms, and mobile cranes. The expansion strengthens Hengli’s manufacturing presence in the Americas and improves its ability to serve

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regional construction and mobile equipment manufacturers.

By Product: Global Hydraulic Cylinder Market – Key Takeaways

The welded segment dominated the market in 2025, driven by its widespread use in mobile and heavy-duty equipment. Welded hydraulic cylinders offer a compact design, high-pressure performance, structural durability, and longer bearing support, making them well suited to demanding operating conditions. Their ability to withstand high loads and accommodate application-specific configurations supports strong demand across construction, mining, marine, and industrial equipment.

Tie-rod cylinders held the second-largest market share in 2025, supported by their widespread use in industrial machinery, agricultural equipment, and production-line systems. Their modular design, ease of maintenance, and field serviceability make them suitable for applications requiring flexible configurations and standardized industrial applications. Competition in this segment remains strong, with lead times, engineering support, and distribution coverage serving as key differentiators.

Telescopic hydraulic cylinders are increasingly used in applications requiring long extension strokes within limited installation space. Their multi-stage design enables substantial extension while maintaining a relatively short retracted length, making them particularly suitable for dump trucks, trailers, agricultural machinery, and material-handling equipment.

By Bore Size: Global Hydraulic Cylinder Market – Key Takeaways

Hydraulic cylinders with bore sizes up to 150 mm dominated the market in 2025, driven by their broad applicability across mobile and industrial equipment. Their balance of load capacity, compact dimensions, and cost efficiency makes them a preferred choice among OEMs. These cylinders are widely used in construction equipment, agricultural machinery, and general industrial

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applications, supporting strong demand across diverse end-use sectors.

Larger-bore hydraulic cylinders are gaining demand as industries require higher force output for heavy-duty operations. They are increasingly used in mining, offshore applications, steel processing, and large material-handling systems where high load capacity and operational reliability are essential. Advances in materials and sealing technologies are improving their durability and performance, while investments in large-scale infrastructure and heavy equipment are supporting segment growth.

By Function: Global Hydraulic Cylinder Market – Key Takeaways

The double-acting segment dominated the market in 2025, driven by its extensive use across mobile and industrial equipment. These cylinders provide controlled force during both extension and retraction, making them essential for applications requiring precise, repeatable bidirectional movement. Strong adoption across excavators, cranes, forklifts, drilling rigs, hydraulic presses, machine tools, and industrial automation systems continues to support segment leadership.

The single-acting segment continues to find demand in applications where hydraulic force is primarily required in one direction, while the return stroke is achieved through gravity, spring action, or external loading. Their simpler design, fewer components, and relatively lower maintenance requirements make them suitable for tipping, lifting, compaction, clamping, and punching operations. Adoption remains strong in agricultural trailers, dump bodies, and refuse equipment, where simpler hydraulic circuits and cost efficiency influence purchasing decisions.

By Application: Global Hydraulic Cylinder Market – Key Takeaways

The mobile segment dominated the hydraulic cylinder market by application in 2025. This dominance is primarily due to the adaptability and performance of

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hydraulic cylinders in mobile machinery, where they ensure smooth, precise, and efficient movement of components. Their widespread use in construction, agriculture, mining, and energy and power applications continues to support segment leadership, particularly across excavators, loaders, tractors, and other heavy-duty mobile equipment.

The energy and power segment represents an important application area for hydraulic cylinders, supported by the need for reliable actuation in demanding operating environments. These cylinders are used in wind turbines, hydroelectric facilities, and conventional power plants for applications such as blade pitch control, dam gate operation, valve actuation, and heavy-component handling. Growing investments in power generation infrastructure and renewable energy projects are supporting demand for durable hydraulic systems.

By End Use: Global Hydraulic Cylinder Market – Key Takeaways

By end-use industry, the construction and mining segment held the largest market share in 2025, driven by extensive hydraulic cylinder applications in boom movement, bucket control, steering, lifting, blade positioning, stabilization, and material handling. Equipment in these sectors operates under high loads, extended duty cycles, and harsh environmental conditions, supporting demand for durable welded, telescopic, and customized cylinder designs. For instance, in February 2025, Volvo Construction Equipment introduced five new-generation hydraulic hybrid excavator models ranging from 26 to 50 tonnes, featuring advanced hydraulic systems and delivering up to 20% better fuel efficiency than previous-generation conventional models.

The agriculture and forestry segment is expected to register the fastest growth during the forecast period, supported by increasing mechanization across farming and forestry operations. Rising adoption of hydraulic cylinders in tractors, harvesters, loaders, balers, sprayers, log splitters, forestry cranes, and timber-handling equipment is driving demand for reliable lifting, positioning, steering, and material-handling capabilities.

The industrial machinery segment is supported by demand for hydraulic cylinders across machine tools, metal-forming equipment, presses, injection-

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molding machines, and automated production systems. These applications require precise force control, repeatable movement, and reliable performance under continuous operating cycles. Increasing industrial automation and investments in advanced manufacturing equipment are supporting demand for customized and high-performance hydraulic cylinders.

By Region: Global Hydraulic Cylinder Market – Key Takeaways

Asia Pacific dominated the global hydraulic cylinder market in 2025, supported by its extensive manufacturing base, infrastructure development, and expanding construction, mining, and agricultural equipment industries. China drives regional demand through its large-scale machinery and equipment manufacturing ecosystem, while India benefits from infrastructure investment and increasing mechanization. Japan and South Korea contribute through their advanced industrial and automotive manufacturing sectors, while Southeast Asia offers additional growth opportunities through agricultural mechanization and infrastructure expansion. The region's growing electric vehicle production also supports demand for hydraulic cylinders used in automated manufacturing, assembly-line operations, and material handling.

The North American hydraulic cylinder market is supported by steady demand across construction, agriculture, oil and gas, material handling, and industrial manufacturing. The region's large installed base of heavy equipment generates consistent replacement and aftermarket demand, while increasing automation and technological advancements are driving the adoption of advanced hydraulic systems.

Europe's hydraulic cylinder market is supported by its established industrial base, advanced infrastructure, skilled workforce, and continued investment in engineering and research and development. Germany leads regional demand, driven by its strong manufacturing, automotive, and precision-engineering sectors, alongside widespread adoption of industrial automation and advanced machinery. The UK market is supported by construction equipment upgrades, infrastructure development, and rising investments in material handling, logistics, and agricultural machinery.

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iGATE RESEARCH report titled “Hydraulic Cylinder Market (By Product, Bore Size, Function, Application, End Use, and Region), Key Company Profiles, Competitive Landscape, Market Dynamics, Trends and Recent Developments – Global Forecast to 2035” provides a comprehensive analysis of the Global Hydraulic Cylinder Market.

This report has been analyzed from 12 View Points:

1) Global – Hydraulic Cylinder Market and Forecast (2022 - 2035)

2) Global – Hydraulic Cylinder Market Share and Forecast (2022 - 2035)

3) By Product - Global Hydraulic Cylinder Market and Forecast (2022 - 2035)

4) By Bore Size – Global Hydraulic Cylinder Market and Forecast (2022 - 2035)

5) By Function – Global Hydraulic Cylinder Market and Forecast (2022 - 2035)

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11) Global Hydraulic Cylinder Market – Trends & Recent Developments

12) Global Hydraulic Cylinder – Market Dynamics

By Product - Global Hydraulic Cylinder Market and Forecast

Welded

Tie Rod

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Telescopic

Mill Type

By Bore Size – Global Hydraulic Cylinder Market and Forecast

Up to 150mm (<6”)

Above 150mm (>6”)

By Function – Global Hydraulic Cylinder Market and Forecast

Double Acting Cylinders

Single Acting Cylinders

By Application – Global Hydraulic Cylinder Market and Forecast

Mobile

Industrial

Energy & Power

Others

By End Use - Global Hydraulic Cylinder Market and Forecast

Construction & Mining

Agriculture & Forestry

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Aerospace & Defense

Material Handling

Industrial machinery

Marine

Others (Special-purpose machinery & High-End Automotive)

By Region - Hydraulic Cylinder Market and Forecast

1. North America

United States

Canada

Mexico

2. Europe

Germany

United Kingdom

France

Italy

Spain

Rest of Europe

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3. Asia Pacific

China

Japan

India

South Korea

Australia

Rest of Asia Pacific

4. Latin America

Brazil

Argentina

Rest of Latin America

5. Middle East & Africa

Saudi Arabia

UAE

South Africa

Rest of Middle East & Africa

Global Hydraulic Cylinder Market – Key Company Profiles

1. Parker Hannifin Corp

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2. Bosch Rexroth

3. Jiangsu Hengli Hydraulic Co., Ltd.

4. Eaton Corporation

5. Caterpillar

6. KYB Corporation

7. Liebherr

8. HYDAC

9. Montanhydraulik GmbH

10. Weber-Hydraulik Group

11. Norrhydro Oy

12. Pacoma GmbH

13. Hydrosila

14. ENERPAC

15. Wipro Infrastructure Engineering

16. Prince Manufacturing Corporation

17. Aggressive, Inc.

18. Best Metal Products

19. JARP Industries Inc.

20. Ligon Industries, LLC

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21. Texas Hydraulics, Inc.

22. Lehigh Fluid Power, Inc.

23. SMC Corporation

24. Burnside Autocyl

25. SHC, Inc.

26. Yates Industries, Inc.

Data Source

iGATE RESEARCH employs rigorous primary and secondary research techniques in developing distinctive data sets and research material for business reports. This report is built by using data and information sourced from Proprietary Information Database, Primary and Secondary Research Methodologies, and In house analysis by iGATE Research dedicated team of qualified professionals with deep industry experience and expertise.

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11.15 Wipro Infrastructure Engineering
11.16 Prince Manufacturing Corporation
11.17 Aggressive, Inc.
11.18 Best Metal Products
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11.20 Ligon Industries, LLC
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11.23 SMC Corporation
11.24 Burnside Autocyl
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