

Hydraulic Power Unit Market: Fluid Power Revolution | North America 6% CAGR by United States, Canada

*Global Hydraulic Power Unit Market
Projected to hit \$21.9 billion by 2032*

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According to a new report published by Allied Market Research, the [hydraulic power unit \(HPU\) market](#) was valued at \$12.4 billion in 2022, and is estimated to reach \$21.9 billion by 2032, growing at a CAGR of 5.9% from 2023 to 2032.



A hydraulic power unit (HPU) is a device that utilizes hydraulic pressure to perform work, typically in industrial or mobile applications. It consists of various components such as hydraulic pumps, motors, reservoirs, valves, filters, and sometimes an electric motor or an internal combustion engine.

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The hydraulic power unit market is expected to witness tremendous growth due to rising automation in industrial and machinery and technological advancements and industry 4.0.”

Allied Market Research (AMR)

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The Asia-Pacific and North America regions dominated the hydraulic power unit market growth in 2022 with CAGR of 6.3% and 6.0% respectively.

Asia-Pacific accounted for 41% hydraulic power unit

market share in 2022 and is expected to maintain its dominance during the forecast period. Because hydraulic systems are widely used in many different industries, such as manufacturing, construction, agriculture, and aerospace.

North America's hydraulic power unit market has been mostly driven by expansion of the manufacturing sector, infrastructural development, and industrial activity. Applications for hydraulic power units can be found in the mining, oil and gas, aerospace, automotive, and construction sectors, all of which support the expansion of the market as a whole.

Top Companies

Brevini Fluid Power S.p.A, Bailey International LLC, Hydac International GmbH, Weber Hydraulik GmbH, Nachi-Fujikoshi Corporation (Nachi Robotic Systems, Inc.), Hydro-Tek Co Ltd., Bosch Rexroth AG, Parker Hannifin Corporation, Eaton, and Dana Incorporated.

Rising automation in industrial & machinery sector and technological advancements & industry 4.0 are the recent hydraulic power unit market trends to drive the growth of the global hydraulic power unit market.

Cavitation, the formation of vapor bubbles in the hydraulic fluid, can occur in certain conditions and lead to damage to components. Proper system design and fluid management are crucial to mitigate cavitation risks.

Machinery and equipment may generate, control, and receive hydraulic power from hydraulic power units, or HPUs. Components including hydraulic actuators, motors, and tools make up the hydraulic power units. It serves as the system's main source of centralized power. HPUs are used in a wide range of sectors, including manufacturing, construction, agriculture, and aerospace.

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Remote control of hydraulic systems can be challenging, especially in applications where the operator needs to be physically close to the equipment. This limitation can impact certain remote or automated operations.

In the forestry industry, mobile hydraulic power units are used to supply energy to machinery such as forestry cranes, woodchippers, and log splitters. These units' mobility is useful in difficult or isolated terrain.

Forklifts, pallet jacks, and scissor lifts are examples of mobile material handling equipment that uses mobile hydraulic power units. The hydraulic power required for lifting and moving materials is supplied by these units.

The reservoir holds the fluid or liquid, which is primarily oil. The reservoir provides the pump with a steady and ample supply of liquid or oil. It facilitates the dissipation of heat, which is often generated while HPUs operate.

Hydraulic fluids, which lubricate the components and serve as a channel for energy transmission, are another component of HPU. The HPU has two different kinds of valves: directional valves and control valves. Control valves, which regulate the fluid's pressure and direction, are another component of HPU.

By storing hydraulic energy, the accumulator found in HPU maintains a steady pressure throughout the system. Accumulators are particularly useful when quick reactions are required, when power is needed temporarily, and during peak hours. To ensure that HPU operates smoothly and durably, filtering systems are in place to remove pollutants.

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The cooling systems that are part of the HPU also contain fans and/or heat exchangers. The heat exchanger's job is to regulate the temperature of the hydraulic fluids and guard against overheating.

The HPU has pressure relief valves that assist in keeping the system from over-pressurizing by returning excess fluid to the reservoir. Additionally, operators of the system get performance data pertaining to flow meters, temperature sensors, pressure gauges, and monitoring instruments & control.

Internal combustion engines or electric motors power HPU. Electric motor-equipped HPU are frequently employed in industrial settings. Internal combustion engine HPU, however, are employed in distant or mobile applications.

The pump component pressurizes the fluid to produce a steady or desired flow, as the hydraulic pressure units (HPU) are in charge of the liquid/fluid flow inside the hydraulic systems.

This pressure range of hydraulic power units is utilized by injection molding machines in the plastics sector. The high pressure makes it easier to precisely inject molten plastic into molds, guaranteeing precise and reliable molding.

The higher pressure in hydraulic lifts and elevators enables the effective lifting and lowering of large loads, which is why these devices require hydraulic power units. Construction sites, warehouses, and industrial facilities are frequent locations for these systems.

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By application, the market is segmented into mobile, industrial, construction, and others. The mobile segment accounted for 25.2% market share in 2022 and is expected to maintain its dominance during the hydraulic power unit market forecast period. Mobile hydraulic power

units are commonly integrated into tractors, harvesters, and other agricultural machinery to drive tools like plows, seeders, and harvesters.

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David Correa

Allied Market Research

+18007925285 ext.

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