

Hydraulic Gear Pump Catalog

Hydraulic technology, serving as the core power transmission system for modern industrial equipment, drives the precise operation of various machinery through its unique energy conversion and transmission methods. Within this fluid-based system, the hydraulic pump is the starting point for converting mechanical energy into hydraulic energy. Its performance directly determines the operational efficiency, reliability, and service life of the entire hydraulic system. Runcheng Hydraulic Co., Ltd. deeply understands this critical role. Our compiled [Hydraulic Gear Pump Product Catalog](#) embodies years of R&D expertise and market insights, comprehensively showcasing how our precision-engineered, reliable gear pumps provide stable and efficient foundational power sources for sectors including construction machinery, agricultural equipment, industrial automation, and specialty vehicles.

With its classic structure, robust durability, and outstanding cost-effectiveness, the gear pump holds a fundamental and stable position within the hydraulic pump family. Its operating principle is simple yet highly efficient: a pair of meshing gears rotating within a sealed chamber creates a local vacuum in the suction zone to draw in fluid, while the discharge zone forces the fluid out, generating continuous hydraulic pressure. This design delivers direct advantages: compact structure, insensitivity to fluid contamination, strong self-priming capability, and easy maintenance. Building upon this foundation, Runhe Hydraulic's product development not only upholds the reliability of classic design but also achieves continuous innovation through materials science, precision machining, and fluid dynamics. This results in gear pumps with extended service life, broader adaptability, and superior performance. Our product series spans a broad spectrum from miniature low-pressure to large-displacement medium-high pressure models, each precisely engineered to meet specific flow, pressure, and mounting dimension requirements of diverse equipment.

To address diverse industrial demands, Runhe Hydraulic's gear pump development focuses on two core directions. External gear pumps form the backbone of our product line. Featuring mature involute gear design enhanced by our unique tooth profile modifications and process optimizations, they deliver high volumetric efficiency while significantly reducing noise and pulsation levels common in traditional gear pumps. These robust pumps confidently handle heavy-duty, complex challenges such as travel drives in construction machinery and lifting systems in mining equipment. Their exceptional shock resistance and contamination tolerance ensure sustained performance of host equipment in harsh environments. For applications demanding tighter space constraints and higher requirements for smooth operation and quietness, our internal gear pump series offers distinct advantages. Through the unique meshing of the inner rotor and outer gear ring, it achieves smooth flow output within a smaller footprint. This makes it particularly suitable for vehicle-mounted hydraulic systems, auxiliary circuits in precision machine tools, and indoor industrial equipment with strict noise control requirements.

Our [Hydraulic Gear Pump Product Catalog](#) clearly illustrates how we combine universal performance with specialized customization. Our standard series gear pumps offer a wide range of displacement options and multiple interface configurations, designed for quick compatibility and easy replacement with mainstream hydraulic systems. For customers with specialized requirements, our engineering team delivers deep customization services. This encompasses adjusting pump displacement parameters, optimizing inlet/outlet configurations, and employing special material treatments to withstand extreme temperatures or corrosive media. We ensure

every pump seamlessly integrates into its final application system, delivering peak performance. We understand reliability stems not only from design but is rooted in manufacturing. Every gear pump from Runhe Hydraulic is produced on highly automated precision production lines. From the quenching and grinding of high-strength alloy gears to the high-precision machining of pump housings, from strict clean assembly to factory testing covering the full pressure range and durability, every step adheres to a quality control system that exceeds industry standards.

Behind this product catalog lies Runhe Hydraulic Co., Ltd.'s long-standing commitment to the philosophy of "Reliable Drive, Value Delivery." As a national high-tech enterprise specializing in the R&D and manufacturing of core hydraulic components, we integrate technical research, product development, lean manufacturing, and market services. With advanced production bases in East and South China, our company boasts a technical team led by senior engineers who maintain close collaboration with top domestic and international research institutes, ensuring our technological vision remains at the industry forefront. We believe that superior hydraulic components form the solid foundation for high-quality development in the equipment manufacturing industry. Therefore, we deliver not only high-quality gear pump products but also professional support rooted in deep application knowledge and a commitment to reliable, long-term service. Runhe Hydraulic looks forward to partnering with you, using our stable and dependable power source to jointly drive the next era of mechanical innovation and industrial progress.

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