

cast iron rotary gear pump

In industrial fluid transfer and hydraulic power systems, the [Cast Iron Rotary Gear Pump](#) is a core, universal component that ensures continuous operation, stable pressure, and constant flow. With its standardized, robust specifications, high-strength cast iron construction, and low-damping rotational performance, this product is suitable for a wide range of applications, including industrial machinery, construction equipment, agricultural and forestry equipment, sanitation vehicles, and general-purpose hydraulic power units. Thanks to its stable performance and robust structural quality, it has become the mainstream choice for both replacement parts and new equipment assembly in the industry.

Runhe has been deeply involved in the hydraulic pump industry for many years, specializing in the research and development, matching, and sales of various cast iron rotary gear pumps, imported hydraulic main pumps, and supporting hydraulic components, as well as providing on-site adaptation and full-cycle operation and maintenance services. The company operates a large-scale warehousing facility, maintains a comprehensive inventory of models, and possesses a robust product testing system and a team of technical experts. Runhe integrates model selection consulting, customization for specific operating conditions, factory testing, installation and commissioning, repair services, and after-sales warranty support into a single, comprehensive solution. By controlling product quality at the source, we prevent refurbished parts, substandard products, and items with mismatched specifications from entering the market, truly helping customers achieve worry-free procurement, durable equipment, and reduced operational and maintenance costs.

In terms of core performance parameters, the Cast Iron Rotary Gear Pumps supplied by Runhe feature standardized, high-precision hardware specifications, making them suitable for the vast majority of standard and medium-to-heavy-duty applications. The products have a rated operating pressure range of 10 MPa to 25 MPa, with stable and controllable peak pressure, allowing them to easily handle instantaneous load surges; The standard speed range is 600–2,800 r/min, supporting both low-speed steady-flow and high-speed high-efficiency operating modes, offering a wide operating range and extremely high fault tolerance. Flow rates range from 6 ml/r to 100 ml/r across multiple specifications, precisely meeting the high-flow demands of small hydraulic systems as well as the stable pressure and oil supply requirements of large equipment, offering a wide range of applications and exceptional versatility.

In terms of key operating parameters, this series of cast iron rotary gear pumps delivers outstanding performance and exceptional industrial practicality. The products maintain a stable volumetric efficiency of 92%–96%, and are unlikely to experience issues such as increased internal leakage or flow rate decline during long-term operation; they can withstand cold-weather starts and continuous operation in high summer temperatures, with no performance fluctuations caused by temperature variations. The pump body is constructed from a single piece of high-density cast iron, offering resistance to tensile stress, deformation, and impact. Combined with precision-ground gears and a high-strength bearing structure, the pump operates with minimal vibration, low noise, and smooth rotation, effectively enhancing the stability and precision of the entire hydraulic system.

Thanks to its robust design and superior materials, Runhe's Cast Iron Rotary Gear Pump offers exceptional adaptability to a wide range of operating conditions. Whether used in industrial hydraulic stations for long-term continuous operation, in construction machinery under heavy-load

and fluctuating conditions, or in agricultural, forestry, and sanitation equipment operating in complex outdoor environments, this product maintains constant pressure and stable output, effectively preventing common issues such as system vibration, operational lag, and insufficient oil supply. At the same time, the product features a simple and compact design with standardized installation dimensions, making it compatible with both new and existing equipment for replacement and upgrades. It requires no additional modifications, resulting in low implementation costs and high compatibility efficiency.

All [cast iron rotary gear pumps](#) sold by Runhe undergo pressure testing, leak testing, and simulated no-load and full-load operation tests before leaving the factory to ensure that every unit meets specifications and performs flawlessly. With ample inventory on hand, price advantages from direct online sales, and a business model that eliminates middleman markups, the company has become the preferred long-term partner for factories, engineering firms, and equipment maintenance providers both domestically and internationally.

For customers with bulk purchasing, equipment replacement, or operational upgrade needs, Runhe offers one-on-one parameter verification, model matching, and customized operational solutions to thoroughly address industry pain points such as difficulty in model selection, parameter mismatches, and lack of after-sales support. To purchase high-quality, standard-compliant, and reliable Cast Iron Rotary Gear Pumps, visit our official website to select the appropriate model and access professional, one-stop hydraulic solutions.

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