

cast iron rotary gear pump

Thanks to its high-strength materials, precision-meshed design, and excellent impact resistance and wear resistance, the [Cast Iron Rotary Gear Pump](#) has become the preferred choice for heavy-duty, high-frequency, and complex operating conditions. This product offers the following key advantages.

The material advantages are the core competitive edge that sets the Cast Iron Rotary Gear Pump apart from ordinary gear pumps. The product is cast as a single, high-density cast iron unit, featuring a housing with ample rigidity and a compact structure, as well as outstanding resistance to deformation, impact, and vibration. When faced with frequent load fluctuations in engineering equipment, continuous impact in mining equipment, and complex outdoor vibration conditions in agricultural machinery, the cast iron pump body consistently maintains structural stability. It does not suffer from issues common to aluminum-housed pumps—such as slight housing expansion, clearance shifts, or pressure decay—thereby ensuring the long-term precision and stability of the hydraulic system at the hardware level.

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In addition, this pump features excellent thermal and pressure stability. Cast iron has a low coefficient of thermal expansion, allowing it to maintain stable internal precision clearances during long-term high-pressure operation and in environments with alternating high and low temperatures. It is resistant to thermal deformation, increased internal leakage, and rapid rises in oil temperature. Its volumetric efficiency degrades slowly over extended operation, effectively reducing energy consumption and the frequency of equipment failures, making it ideally suited for high-load scenarios such as continuous industrial mass production and heavy-duty outdoor operations.

Backed by solid product quality and extensive industry experience, Hebei Runhe has established a comprehensive product portfolio and service system. The company maintains a stock of [cast iron rotary gear pumps](#) in all sizes, featuring a complete range of models and strong compatibility. These pumps can be directly installed in mainstream machinery such as construction equipment, agricultural machinery, mining equipment, and general-purpose hydraulic power units, supporting replacements for both new and old equipment, complete machine integration, and small-batch customization. All products undergo high-pressure pressure retention testing, seal integrity testing, and full-load simulation before leaving the factory, ensuring that no defective or substandard products are shipped. The company provides customers with one-on-one product selection and matching services, as well as full-lifecycle after-sales support, helping to ensure the long-term, efficient, and stable operation of various types of hydraulic equipment through consistent quality and professional service.

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