

parker cast iron gear pump

As a leading heavy-duty cast iron gear pump, the [Parker cast iron gear pump](#)—with its high-strength cast iron housing and pressure-balanced design—is widely used in a variety of fields, including construction machinery, agricultural machinery, mining and petroleum, and industrial equipment.

In the construction machinery sector, excavators, loaders, bulldozers, and cranes experience constant and drastic changes in load during operation. As a result, the hydraulic system is repeatedly subjected to instantaneous shock pressures, causing standard pump housings to easily suffer from issues such as deformation and increased internal leakage. [Parker cast iron gear pumps](#) feature a reinforced cast iron housing design that can easily handle frequently fluctuating pressure conditions. Some series have a rated pressure of up to 27.5 MPa and a peak pressure of up to 35 MPa, aligning with the equipment standards of leading original equipment manufacturers. They maintain reliable operation even under construction site vibrations and impact loads, reducing the risk of equipment shutdowns during operation.

In the field of agricultural machinery, tractor hydraulic lifting systems, combine harvester header drives, and sprayer pump systems all rely on a stable hydraulic power source. Field operations are characterized by high dust levels, significant fluctuations in humidity, widely dispersed equipment, and limited on-site repair capabilities. A single hydraulic pump failure can delay critical farming schedules. The Parker cast iron gear pump features a cast iron housing that is vibration-resistant and wear-resistant, offering greater fault tolerance in complex field environments. This reduces the frequency of breakdowns and downtime; every repair avoided allows farmers to make the most of one more busy farming season, making it ideal for agricultural machinery operating continuously in the field for extended periods.

Mining and Oil & Gas Industries. Underground mining machinery and oil drilling and production equipment are constantly exposed to environments with high dust levels, high humidity, and frequent impacts, placing stringent demands on the contamination resistance and shock resistance of hydraulic components. The Parker cast iron gear pump features a robust and reliable cast iron housing that withstands vibration and impact, and its internal design offers outstanding resistance to contamination. Even under harsh operating conditions, it maintains stable output, thereby reducing the frequency of maintenance for underground mining and field oilfield equipment.

In the fields of injection molding machines, die-casting machines, and machine tools, hydraulic systems must not only enable motion but also ensure stable operation. The molding and machining processes of these machines demand high consistency in pressure and flow rate; excessive flow pulsation directly affects the precision of the finished products. The Parker cast iron gear pump delivers a smooth flow rate with minimal pressure pulsation, enabling it to maintain stable volumetric efficiency throughout the system. This ensures machining precision and consistency across product batches, meeting the demands of long-term, continuous production in manufacturing facilities.

Hebei Runhe has specialized in the supply of hydraulic components for many years and offers a full range of brand-new, genuine [Parker cast iron gear pumps](#). We are well-versed in the operating conditions of equipment across various industries and the key considerations for model selection. Backed by a large warehouse with extensive stock, we carry a complete range of models and can handle both the replacement of old pumps and bulk project orders. We also provide

parameter verification, operating condition-based selection, installation guidance, and after-sales technical support to help you avoid procurement risks such as model mismatches or the use of refurbished parts. If you have replacement or procurement needs, please visit our official website to obtain a customized solution.

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