

### **cast iron gear pump**

The [cast iron gear pump](#) is a commonly used positive displacement power component in hydraulic systems. Its core consists of a cast iron pump body, gears, bushings, oil seals and other components, and is manufactured from high-quality cast iron. It features a simple structure and compact design, and is characterised by high-pressure resistance, wear resistance, stable operation and a long service life. It is primarily used in hydraulic systems to convey media such as mineral-based hydraulic oil, converting mechanical energy into hydraulic energy to provide stable power for various types of machinery. It is widely used across multiple industries, including automated equipment, agricultural machinery, lifting machinery, engineering vehicles, and port and marine vessels.

The core advantages of the cast iron gear pump lie in its material, performance and adaptability. In terms of material, it is manufactured from high-strength cast iron, offering excellent mechanical strength and structural integrity. It can withstand high internal pressures and mechanical stresses without deformation. Furthermore, the dense structure of cast iron provides effective vibration damping and noise reduction, minimising operational noise. It also exhibits strong heat resistance, maintaining stable performance across a wide temperature range and preventing thermal expansion and deformation from affecting operational efficiency. In terms of performance, the pump features a precision gear meshing design, delivering high volumetric efficiency and minimal leakage. It provides a stable output of hydraulic power and is suitable for a variety of pressure requirements.

In terms of applications, [cast iron gear pumps](#) offer exceptional versatility. In agricultural machinery, they can be used in the hydraulic systems of tractors, harvesters and similar equipment, providing power for steering, lifting and other operations; in construction vehicles, they are suitable for excavators, loaders and similar equipment, ensuring the stable operation of hydraulic systems and withstanding heavy loads and high-frequency working conditions; In the industrial sector, they are used in the hydraulic transmission of automated equipment, lifting machinery and printing machinery, enhancing operational stability; in ports, on ships and in intelligent warehousing systems, they serve as the power core, adapting to harsh working environments to ensure continuous and efficient operation of equipment. The cast iron gear pumps manufactured by Runhe Hydraulics strictly adhere to industry standards, precisely meeting the hydraulic system requirements of equipment across various sectors, and are characterised by stable and reliable quality.

The quality of cast iron gear pumps depends on the manufacturing process and quality control. Drawing on over 12 years of industry experience, Runhe Hydraulics utilises advanced production equipment and precision machining techniques. During the manufacturing process, the quality of the cast iron raw materials is strictly controlled. Precision machining is carried out using equipment such as CNC honing machines and comprehensive gear inspection instruments to ensure gear meshing accuracy and pump body sealing. Furthermore, rigorous pressure testing and cleanliness inspections are conducted to eliminate issues such as leakage and burrs, thereby guaranteeing consistent and stable performance for every product.

Runhe Hydraulics boasts a comprehensive production system, a professional R&D team and state-of-the-art manufacturing equipment. We offer a standard range of [cast iron gear pumps](#), as well as bespoke manufacturing services based on customer drawings to meet individual requirements such as special ports, specific mounting configurations and unique performance

specifications. By choosing Runhe Hydraulics' cast iron gear pumps, you gain access to high-quality, cost-effective hydraulic power components whilst benefiting from bespoke services and comprehensive after-sales support. This helps businesses enhance equipment operational efficiency, reduce production costs and achieve mutually beneficial outcomes. We welcome enquiries and orders from all our customers.

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