

cast iron rotary gear pump

[Cast iron rotary gear pumps](#) are characterized by high rigidity, wear resistance, and stable continuous operation. However, prolonged heavy-duty rotation, erosion from contaminants in the operating environment, and frequent start-stop cycles can lead to various degenerative failures in the equipment. Routine maintenance alone is insufficient to restore the equipment to its original performance; professional, precise, and targeted repairs are key to quickly restoring the equipment to operational condition and avoiding the waste associated with replacing the entire unit. Drawing on years of experience, Runhe provides repair solutions to help your equipment return to service quickly.

1. Abnormal Noises and Vibration Faults. Abnormal noises and body vibration are the most common rotational faults in cast iron rotary gear pumps. They are typically caused by three issues: gear meshing wear, increased bearing clearance, and loose mounting bases. These are also early warning signs of declining equipment performance. Many users choose to continue operating the equipment despite these issues, ultimately leading to severe damage such as gear tooth breakage and pump body cracks. To address these issues, our standard repair process focuses on disassembly inspection and precise calibration: After disassembling the pump body, we clean out internal oil residue and impurities; inspect the degree of wear on the gear tooth surfaces and the bearing clearance; and replace bearings and damaged gears that exceed wear tolerances. We then recalibrate the gear meshing precision, correct rotational coaxiality, and finally tighten the pump body mounting bolts and install vibration-damping components to eliminate operational resonance. This comprehensive repair thoroughly resolves issues such as abnormal rotational noise and body vibration, restoring the pump to smooth operation.

2. Minor Internal Leaks and Insufficient Pressure. After prolonged operation, cast-iron rotary gear pumps may experience increased internal clearances and seal deterioration. These issues manifest as an inability to build pressure, reduced power, and pressure loss under load, severely impacting equipment operational efficiency. Unlike mechanical wear that cannot be repaired through routine maintenance, targeted repairs can effectively resolve these potential issues. The core of the repair lies in replacing aged seal kits, restoring worn thrust surfaces, removing internal wear debris, and recalibrating axial and radial clearance to resolve high-pressure internal leakage and pressure decay in the pump body. By adjusting the clearances to the original manufacturer's standards, the pump's volumetric efficiency can be maximally restored, bringing the equipment's pressure and flow back to factory specifications—enabling full-capacity resumption of operations without replacing the entire unit.

Runhe consistently supplies high-quality complete [Cast Iron Rotary Gear Pumps](#) and full sets of original manufacturer spare parts. We control the casting, machining, and inspection processes from the source, ensuring that our pump bodies feature high rigidity, high rotational precision, and excellent wear resistance, making them suitable for a wide range of complex industrial and engineering operating conditions. Whether you need to replace equipment parts or purchase new units for an upgrade, Runhe can provide you with high-quality products.

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