cast iron gear pump

The Cast Iron Gear Pump features a one-piece cast iron pump body and is a hydraulic power component designed for medium- to high-pressure, heavy-duty applications. Compared to gear pumps with aluminum alloy housings, it offers greater rigidity, resistance to deformation, and improved vibration and noise reduction. It can withstand continuous vibration and load impacts, effectively minimizing internal leakage caused by housing expansion under high pressure, and provides a continuous and stable hydraulic flow output for construction machinery, agricultural machinery, and material handling equipment.

The pump body is made of high-density cast iron in a single-piece construction, while the internal gears undergo precision hobbing, quenching, and grinding. The meshing clearance is precisely controlled, ensuring stable volumetric efficiency. A built-in pressure-balancing mechanism equalizes oil pressure on both sides of the gears to reduce wear; combined with reliable sealing components, it withstands continuous, long-term operation. Even in harsh environments—such as bumpy construction sites, dusty fields, and conditions with significant oil temperature fluctuations—the Cast Iron Gear Pump is less prone to flow rate decline due to pressure fluctuations, operates more quietly, and delivers outstanding overall durability.

This cast iron gear pump is suitable for a wide range of applications and can be paired with skid-steer loaders, forklifts, tractors, agricultural trailers, small excavators, aerial work platforms, and conveying equipment to provide hydraulic power for lifting, steering, pushing, and unloading. With standard flange and shaft-extended interfaces, it offers high versatility and can directly replace pumps of the same specifications from leading brands, making it highly convenient for bulk supply, maintenance, and replacement.

Hebei Runhe has specialized in the manufacture of hydraulic components for many years and is well-versed in the challenges posed by heavy-duty operating conditions in mobile hydraulic equipment. The company continuously optimizes the housing structure, gear precision, and sealing solutions for its cast iron gear pumps, while strictly controlling the assembly quality of every pump to meet rigorous standards.

The company possesses over 130 sets of CNC machining, cleaning, and testing equipment. Hebei Runhe conducts pressure testing, flow calibration, and durability spot checks on every cast iron gear pump, strictly controlling burrs, cleanliness, and assembly clearances to ensure that products deliver stable performance under high-frequency start-stop conditions.

Hebei Runhe Hydraulic Machinery Co., Ltd offers a variety of displacement specifications in stock and supports non-standard customization for special oil ports, mounting flanges, and pressure parameters to meet the differentiated supply needs of original equipment manufacturers . Adhering to the principle of “Survival through Quality, Development through Integrity,” Hebei Runhe Hydraulic Machinery Co., Ltd. provides customers with product selection support, sample testing, and reliable delivery. If you require heavy-duty hydraulic power pump components, please contact us to obtain detailed specifications for our Cast Iron Gear Pumps and develop a hydraulic solution tailored to your equipment.

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