

### hydraulic gear pump catalogue

In the hot hydraulic pipeline next to the steel furnace, in the sterile conveyor line of the precision pharmaceutical workshop, in the giant construction machinery behind the powerful action, [hydraulic gear pump catalogue](#) as the industrial pulse in the silent and tough heart, continue to inject surging power for modern machinery. As a deep-rooted in this core field, Runhe Hydraulics always cast the concept of “precision, reliability, green” in the design and manufacture of each gear pump. Our product catalog is not only a collection of technical parameters, but also a commitment to innovation and technology to drive the progress of thousands of industries.

The Runhearth Hydraulics family of gear pumps includes external, internal and helical gears to handle all scenarios from low pressure (100 bar) to ultra-high pressure (4000 bar). It all starts with the basic structure. Forged from hardened steel, the surfaces of the main and driven gears are carburized to enhance hardness and wear resistance, and the large composite-coated plain bearings maintain stability even under extreme conditions of sudden dry running. As a key barrier against leakage, the sealing system is equipped with radial shaft seals as standard, and can be flexibly equipped with temperature-resistant mechanical seals up to 300°C or polytetrafluoroethylene (PTFE) lip seals to ensure absolute sealing under high-temperature and high-pressure environments. The asymmetric unloading groove design embedded in the pump cover - the precise coordination of the tapered groove on the suction side and the rectangular groove on the discharge side - completely solves the “oil trap” problem plaguing the industry, and reduces the operating noise to 40-70dB. The noise is suppressed in the range of 40-70 decibels, and the standby state is almost library-like quiet. This attention to detail is the core guarantee of the long life (average trouble-free operation of more than 20,000 hours) and low maintenance of Runhe gear pumps.

As green manufacturing becomes a global consensus, Runhe has incorporated energy efficiency innovations into its product DNA. Through the intelligent servo-hydraulic system to dynamically adjust the flow and pressure, our gear pumps are up to 70% more energy efficient than traditional models, and the theoretical power consumption can be controlled within 7.5 kW-h, which significantly reduces the user's long-term operating costs. The built-in oil temperature sensor and air cooling system form a closed-loop temperature control, which precisely stabilizes the oil temperature at the optimal range of 35-50°C, slows down the aging of seals, and extends the life of the whole machine by 30%. More commendable is its wide range of media adaptability: whether it is 68 antiwear hydraulic oil, high viscosity heavy oil, or corrosive dilute sulfuric acid, benzene solvents, Runhe can provide cast iron, stainless steel or aluminum alloy [hydraulic gear pump catalogue](#), and meet the food grade (FDA), acid (EN 10088) and other stringent certifications, so that the same technology platform seamlessly connects the chocolate sauce delivery and chemical raw materials metering.

Precision is the distinctive label that distinguishes Runhe gear pumps from their peers. Relying on Japan's Mitsubishi PLC and servo motor/pump synergistic control, the pressure repeatability error is no more than 1%, and the heavy-duty positioning accuracy reaches  $\pm 0.02$  mm, realizing the engineering paradigm of “micron-level control”. At the dynamic response level, the fast forward speed can be adjusted to 175 mm/s, the work phase supports 5-20 mm/s stepless variable speed, holding pressure fluctuations of less than 0.5%, giving the equipment like a smooth control experience. This precision makes Runhe Pumps rock-solid in the 160 bar high-pressure system of metallurgical continuous casting machines and the heavy oil lubrication station of rolling mills, as well as in the slewing motors of excavators and the luffing hydraulic

station of cranes, which are also capable of generating powerful energy.

From the harsh environments of the energy hinterland to the cleaner needs of people's livelihoods, the Runhearth gear pump has become the universal language of power across a wide range of industries. In the petrochemical field, it transports 300°C high temperature crude oil and provides  $\pm 0.5\%$  precision chemical injection for reactors; in the power industry, it guards the lubricating oil circulation of gas turbines with a high flow rate of 340 m<sup>3</sup>/h. When the scene turns to food and medicine, the 316L stainless steel pump body guarantees the pollution-free transportation of chocolate sauce, and the aseptic seal design builds a safety barrier for pharmaceutical filling; and on the environmental front, the pump body with special wear-resistant particle structure is driving the efficient operation of sludge dewatering filter press. This all-field penetration, proved Runhe “a pump for multiple purposes” modular wisdom.

Runhe knows that excellent products need to be supported by full life cycle services. We support in-depth customized development, based on viscosity (1-100 cSt), particle content and other operating parameters to optimize the pump design. Through the HLO-Cloud digital platform, users can monitor pressure, temperature and vibration data in real time to realize predictive maintenance. When unexpected demand comes, 48-hour global emergency spare parts supply network and 72-hour on-site technical support have covered more than 20 countries in Asia, Africa and Europe, so that distance is no longer a barrier to protection.

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