

gear pump catalogue

In the field of hydraulic equipment, “[gear pump catalogue](#)” is not only a summary of product models, but also a concentrated reflection of the technical strength and service capabilities of the enterprise. 12 years of ploughing into the hydraulic industry, with independent research and development capabilities and experience in non-standard customization, “support customization” as a core competitive advantage. With independent R&D capability and non-standard customization experience, we have made “support for customization” our core competitive advantage. This article will take gear pump customization service as the main line, presenting a reliable solution guide for customers with special needs.

1. Full-dimensional adaptability

Special ports: support a variety of interface forms, can match the non-standard piping layout

Material upgrading: provide stainless steel, high-strength alloy steel, wear-resistant coating and other corrosion/high-pressure-resistant materials.

Performance enhancement: customized displacement, pressure, speed

Installation adaptation: flange type, tripod type, stacked and other shaped installation structure

2. Rapid response system

The technical team will dock the demand within 24 hours and complete the program design within 72 hours.

Own precision machining centers guarantee 15-day delivery for small orders.

3. Quality Commitment

ISO 9001 quality system certification, customized products enjoy a long warranty.

Each machine comes with a 3D dynamic simulation report and measured performance curves.

4. Gear pump customization process details

Step 1: Demand Confirmation

Analysis of working conditions: customers provide application scenarios (such as port machinery salt spray environment), load characteristics, space limitations and other parameters

Technical docking: Exclusive team of engineers confirm the direction of customization through video conference/site survey.

Signing agreement: Clearly define the performance indicators, acceptance criteria and intellectual property protection terms.

Step 2: Program Design

Structural design: 3D modeling and mechanical simulation are completed using software.

Configuration selection:

Gear set: optional involute/circular arc tooth shape, nitriding treatment hardness up to HRC60

Seal system: high temperature (-40 °C ~ 200 °C) fluorine rubber / Viton material seal package

Bearing program: SKF angular contact bearings or ceramic bearings to cope with high-speed working conditions.

Step 3: Prototyping

Step 4: Testing and acceptance

Performance test: 72 hours of continuous endurance testing on a simulated bench.

Data delivery: Provide efficiency graphs and noise spectrum analysis reports.

Step 5: Mass production (according to order size)

Provide laser marking service, can be customized with corporate logo and exclusive code.

In today's growing demand for customization of industrial equipment, Hebei Runhe Hydraulic Machinery Co., Ltd. continues to reconstruct the customization boundary of gear pumps with technology as the cornerstone. Whether it's special port forms, shaped mounting structures, or intelligent pressure-flow composite control valve integration, we always take customer scenarios as the origin of innovation, and prove the value of customization with quantifiable performance enhancement.

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