

### **casappa cast iron gear pump**

The [Casappa cast iron gear pump](#) is a high-quality positive displacement hydraulic power component from a renowned Italian brand. Comprising a high-strength cast iron pump body, precision gears, wear-resistant bushings and seals, it features a robust and compact design. Characterised by high-pressure resistance, wear resistance, low noise and stable operation, it efficiently converts mechanical energy into hydraulic energy and is capable of delivering media such as mineral-based hydraulic oil. It is widely used across multiple industrial applications and is suitable for a variety of hydraulic system requirements.

In terms of application scenarios, the Casappa cast iron gear pump offers exceptional adaptability, covering multiple sectors within industrial and mobile machinery. In the engineering vehicle sector, it is suitable for equipment such as excavators and loaders, capable of handling heavy-duty, high-frequency operating conditions and providing stable power for steering and lifting operations; In the agricultural machinery sector, they are used in tractors, harvesters and similar equipment, ensuring the efficient operation of hydraulic systems and adapting to complex field working environments; in the industrial sector, they can be used for hydraulic transmission in automated equipment, lifting machinery and printing machinery, enhancing equipment operational stability; in the port, shipping and mining machinery sectors, they can adapt to harsh working environments, withstanding high-temperature and high-pressure conditions to ensure continuous and efficient equipment operation, whilst also being suitable for hydraulic systems in industries such as metallurgy, petrochemicals and power generation.

The selection guide must be applied in conjunction with actual operating conditions to precisely match requirements. First, determine the operating pressure and flow rate; the [Casappa cast iron gear pump](#) can achieve a peak pressure of 330 bar, with a displacement range of 4.95 to 180.73 cm<sup>3</sup>/rev. Select the appropriate model based on the system's maximum operating pressure and flow rate requirements; Secondly, consider the installation scenario. Select a suitable model based on the equipment's installation space, drive shaft, mounting flange and port type. Its compact design allows for the integration of more functions within confined spaces, whilst multiple mounting options cater to diverse operational requirements; finally, take into account the working medium and environment. For high-temperature or corrosive conditions, customised models with special seals and materials can be selected to ensure product suitability and service life. Runhe Hydraulics can provide professional selection guidance to help customers accurately match the appropriate Casappa cast iron gear pump model.

The maintenance manual must be followed to ensure correct operation and extend the product's service life. During daily use, keep the exterior of the pump housing clean, particularly the drive shaft seal area, to prevent abrasive dust from accelerating seal wear; regularly check the hydraulic oil level and cleanliness, and replace the filter in a timely manner; it is recommended to use standard-compliant mineral hydraulic oil; During cold starts, ensure the rotational speed does not exceed 1500 rpm. When the ambient temperature is below -20°C, restrict both speed and system pressure until the hydraulic oil reaches the required temperature; regularly inspect seals and gear wear; should leaks or abnormal noises be detected, shut down the unit immediately for maintenance; when in storage, keep the unit in a dry environment with temperatures maintained between 5 and 20°C, and do not store for longer than 24 months.

In terms of technical capabilities, the [Casappa cast iron gear pump](#) features a double-gear structure with high meshing precision, high volumetric efficiency and low leakage. It also

integrates anti-vibration and anti-cavitation functions, offering outstanding technical advantages. Drawing on over 12 years of experience in the hydraulic industry, Runhe Hydraulics, as a premium supplier of Casappa cast iron gear pumps, strictly controls the entire process of product procurement and testing. With a dedicated team of technical experts, we provide comprehensive services including selection guidance and maintenance consultancy to ensure the stable operation of the products.

As a specialist manufacturer of hydraulic system solutions, Runhe Hydraulics offers a comprehensive range of genuine [Casappa cast iron gear pumps](#), covering multiple series—including KAPPA, FORMULA and PLP—as well as various specifications and models. Leveraging our advanced production facilities and technical expertise, we provide services such as customisation, commissioning, and after-sales maintenance to meet our customers' specific requirements. Adhering to the business philosophy of “survival through quality, development through integrity”, the company ensures a stable supply and comprehensive after-sales support. By choosing Casappa cast iron gear pumps supplied by Runhe Hydraulics, customers not only receive genuine, high-quality products but also benefit from professional end-to-end services. This helps businesses enhance equipment operational efficiency, reduce maintenance costs and achieve mutually beneficial cooperation. We welcome enquiries and orders from all customers.

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