

p30 gear pump

Leveraging years of technical expertise and market experience, Runhe Hydraulics has launched the P30 series gear pump—a premium solution engineered to meet industrial demands for efficient, stable hydraulic power. This product not only inherits the traditional advantages of gear pumps—compact structure and strong contamination resistance—but also undergoes multiple optimizations in material technology, efficiency performance, and adaptability. It is dedicated to delivering enduring, reliable power support across various demanding operating conditions.

The [P30 gear pump](#)'s design philosophy stems from a deep understanding of industrial applications. It employs a classic involute gear design, ensuring smooth gear meshing and stable flow output through precision machining. Its displacement range spans from 16.4 ml/rev to 80.7 ml/rev, with a maximum rated working pressure of 172 bar. The pump accommodates speeds between 600 and 2400 RPM, making it compatible with diverse industrial equipment and hydraulic system requirements.

In material selection, the P30 gear pump's housing is constructed from high-strength cast iron, while the gears are typically manufactured from premium alloy steel through carburizing, quenching, and precision grinding processes. This ensures core components possess outstanding wear resistance and sufficient mechanical strength to withstand the challenges of prolonged high-load operation. Key sealing areas, such as shaft seals, utilize stable-performance materials, effectively reducing leakage risks and extending pump service life.

Notably, the [P30 gear pump](#) prioritizes low-noise and low-pulsation performance (aligned with the optimization direction mentioned earlier). Through optimized gear tooth profiles and precise manufacturing tolerance control, it minimizes flow pulsations and mechanical vibrations during operation. This significantly reduces noise levels, creating a more comfortable working environment for operators while mitigating potential adverse effects of vibration on other system components.

Another major advantage of the P30 gear pump lies in its broad media adaptability. It smoothly conveys hydraulic oils or lubricating media with viscosities ranging from 32 to 1000 cSt, while its operating fluid temperature range accommodates environments from -20°C to +100°C. This versatility makes the P30 gear pump suitable not only for conventional industrial hydraulic systems but also for lubrication systems, cooling circulation systems, and other fluid conveyance applications.

Maintenance convenience is another key design consideration for the P30 gear pump. Its relatively simple structure adheres to the principle of easy maintenance for gear pumps. This means routine inspections or replacement of wear parts can be completed efficiently, helping reduce equipment downtime and lower long-term maintenance costs for users.

Runhe Hydraulic understands that superior industrial products demand rigorous quality control. From raw material intake to finished product shipment, the P30 gear pump undergoes multiple inspection procedures at every stage. This ensures every pump delivered to customers meets design specifications and performance requirements, guaranteeing high product consistency.

Notably, the P30 gear pump's mature technology (derived from Parker's P-series pump design) translates to comprehensive technical support and spare parts availability. Users can operate with confidence, free from concerns about future maintenance.

In summary, the Runhe Hydraulic P30 gear pump aims to be the reliable choice for industrial equipment manufacturers and users alike, offering stable performance, robust construction,

excellent adaptability, and economical maintenance costs. Whether deployed in machine tools, automated production lines, or diverse mobile machinery, it delivers consistent performance to provide your equipment with continuous power support.

Runhe Hydraulic remains steadfastly customer-centric, committed to delivering cost-effective hydraulic products and solutions. Choosing the Runhe P30 gear pump means selecting not just a product, but a guarantee of sustained operation and trustworthy professional support.

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