

### **p30 gear pump**

As a classic medium- and high-pressure cast iron gear pump that has earned widespread market recognition, the P30 Gear Pump—with its high-strength cast iron construction, precision gear grinding process, and stable pressure output—is perfectly suited for a wide range of demanding operating conditions, including frequent start-stop cycles, significant load fluctuations, and continuous operation. Hebei Runhe has thoroughly refined the entire [P30 Gear Pump](#) product line, strictly adhering to international manufacturing standards. From raw material selection to precision machining, quality is rigorously controlled throughout the entire process, addressing industry pain points—such as insufficient pressure, leakage, and premature failure—common in standard gear pumps at their source, and providing highly adaptable and stable hydraulic solutions for customers across various industries.

The P30 Gear Pump's robust material construction ensures exceptional heavy-duty endurance. Featuring a one-piece, high-strength cast iron housing, this product offers significantly improved rigidity, deformation resistance, and impact resistance compared to traditional aluminum-housed pumps. It can withstand long-term exposure to construction site vibrations, sudden load changes, and instantaneous high-pressure surges, effectively preventing common issues such as housing deformation, internal clearance shifts, and a decline in volumetric efficiency. Equipped with precision-machined, quenched alloy steel gears, a specialized pressure-balancing mechanism, and heavy-duty bearings, the pump features a low coefficient of friction and high meshing precision. This ensures uniform and stable hydraulic output throughout operation, significantly delays performance degradation, and is designed for long-term, uninterrupted continuous operation.

With its outstanding performance specifications, the P30 Gear Pump is suitable for heavy-duty operations across a wide range of applications. The product has a rated operating pressure of up to 210 bar and a peak pressure of 245 bar, easily handling medium- and high-pressure heavy-duty conditions; its wide speed range of 500–2,400 RPM accommodates both low-speed, stable pressure requirements and high-speed, high-efficiency operations. The full product line offers a comprehensive range of displacement specifications, covering 16 cc/rev to 65 cc/rev, making it widely compatible with various machinery types such as forklifts, aerial work platforms, tractors, small excavators, and injection molding auxiliary equipment. With low operating temperature rise, low noise levels, and stable flow pulsation, its overall performance far exceeds that of standard gear pumps in the same class.

Standardized universal design and exceptional compatibility are the core market advantages of the [P30 Gear Pump](#). The product features SAE international standard interfaces, with universal specifications for flanges, shaft extensions, and oil ports. It supports both single-pump and multi-pump configurations, making it suitable for both retrofitting and upgrading legacy equipment and for bulk installation in new machinery. It can be directly integrated without requiring modifications to the frame or piping, resulting in low implementation costs and high compatibility efficiency. Additionally, this pump offers excellent resistance to contamination, withstanding minor impurities in the operating medium. It features a high fault tolerance and convenient maintenance, making it perfectly suited for complex, continuous operations in engineering, agriculture, and industrial settings.

Leveraging its ongoing capacity for technological innovation, Hebei Runhe continues to optimize the performance of its P30 Gear Pump. The company has established joint R&D teams with renowned domestic universities, introduced internationally advanced R&D concepts and

manufacturing technologies, and utilized specialized simulation and analysis software to optimize product design. By continuously enhancing the pump's pressure resistance, wear resistance, and pressure stabilization capabilities, the company has consistently improved the product's stability under high-pressure, high-temperature, and high-frequency operating conditions, ensuring it maintains industry-leading overall performance.

In addition to supplying standardized, genuine off-the-shelf products, Hebei Runhe leverages its proven capabilities in non-standard customization to provide personalized P30 gear pump solutions for customers with special operating conditions. To address specific installation space constraints, special media, unique pressure and flow requirements, and specialized interface needs, the company can optimize product designs and materials on a case-by-case basis, overcoming the limitations of standard products to achieve true on-demand customization and precise compatibility, thereby comprehensively resolving the challenges of matching equipment for various niche and complex applications.

All [P30 Gear Pumps](#) manufactured by Hebei Runhe undergo high-pressure pressure retention testing, seal integrity verification, and full-load simulation testing before leaving the factory, ensuring traceable quality and guaranteed performance. From standard replacements and bulk supply to custom-made solutions, the company leverages its robust product capabilities and professional services to help customers reduce costs, improve efficiency, and minimize downtime losses.

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