

rexroth cast iron gear pump

With its low-pulse output, stable high-pressure performance, and long-lasting resistance to degradation, the [Rexroth Cast Iron Gear Pump](#) has become a core component in the hydraulic systems of high-end CNC machine tools and machining centers. Widely used in critical processes such as hydraulic clamping, tool changing, guideway lubrication, and auxiliary drives, it serves as a vital power source for ensuring mass production and quality improvement in precision machine tools. Runhe has been deeply involved in the field of machine tool hydraulic components for many years and has a precise understanding of the demanding operating conditions required by CNC machine tools, including low-speed precision, continuous mass production, and low-noise, stable control. We specifically promote the Rexroth cast iron gear pump series, which is tailored for machine tools, to help address industry pain points such as machining errors, workpiece scrap, and frequent equipment downtime caused by the excessive vibration, pressure fluctuations, and rapid temperature rise associated with standard gear pumps.

The core requirements for hydraulic power in CNC machine tool operations are low-pressure steady flow, high-pressure pressure maintenance, and low vibration and noise—which are also the key advantages of Rexroth cast iron gear pumps in machine tool applications. This series of pumps employs precision gear grinding and an optimized meshing structure, combined with a high-strength, one-piece cast iron housing, resulting in extremely low flow pulsation. This enables the uniform and stable delivery of hydraulic fluid, effectively suppressing vibration and shock in the hydraulic system. During the hydraulic clamping of workpieces, the pump delivers a constant pressure, eliminating workpiece misalignment and clamping loosening caused by pressure fluctuations. This ensures dimensional accuracy in precision machining processes such as milling, drilling, and grinding, making it ideally suited for the mass production of high-precision components.

Designed for the 24-hour continuous mass production operations of CNC machine tools, Runhe's Rexroth cast iron gear pump offers exceptional durability under long-term operating conditions. The high-density cast iron housing provides excellent rigidity and is resistant to deformation caused by system pressure surges. Even during prolonged continuous operation, it maintains minimal internal clearance, with volumetric efficiency consistently remaining above 94%, effectively preventing issues such as increased internal leakage and power loss. At the same time, the product features excellent heat dissipation and contamination resistance, making it suitable for the machine tool's long-term, constant-temperature operating environment. It withstands contamination from minute impurities in the machine tool's hydraulic system, significantly reducing pump wear, sticking, and leakage failures. This effectively minimizes the frequency of machine downtime for maintenance and ensures the continuous, efficient operation of the production line.

When it comes to machine tool system integration and energy-saving optimization, the modular design of the [Rexroth cast iron gear pump](#) offers particularly notable advantages. With its compact structure and standardized mounting dimensions, it seamlessly fits into the confined installation spaces of hydraulic power units in various vertical and horizontal machining centers. It is compatible with both new and legacy machine tools for replacement and upgrades, requiring no modifications to piping or frames, resulting in low integration costs and rapid deployment. Compared to conventional pumps, it exhibits lower operating temperature rise and reduced energy consumption, effectively lowering the overall energy consumption of the machine tool. At the

same time, its quiet operation optimizes the workshop production environment and meets the production standards of modern precision machining workshops.

Runhe maintains a full range of Rexroth cast iron gear pumps specifically designed for machine tools in stock, with models covering the specifications required for mainstream machine tools. All products undergo factory-level high-pressure testing and simulated operating condition tests, and their quality meets German precision engineering standards. We not only provide complete machine sales and original equipment manufacturer (OEM) spare parts, but also offer customized, one-stop solutions—including precise model selection, system commissioning, and operation and maintenance guidance—tailored to different machine tool models and machining conditions.

Stable mass production of precision machine tools relies on high-quality hydraulic power components. With its core advantages of precision, stability, durability, and energy efficiency, the [Rexroth cast iron gear pump](#) has become the preferred core pump for CNC machine tool hydraulic systems. Runhe continues to deepen its expertise in the field of industrial machine tool hydraulic systems. With reliable products and professional technical services, we help manufacturing enterprises improve machining precision, reduce operation and maintenance costs, and achieve efficient mass production. Customers in need of equipment replacement or new machine procurement can visit our official website to inquire about and select a customized solution.

Rexroth internal gear pumps

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