

Hydraulic cylinders for plows

Field farming operations take place in complex and harsh environments—filled with mud, sand, and dust; mixed with soil impurities; and subject to fluctuating day-and-night temperature differences—which place extremely high demands on the durability of plow components. Ordinary hydraulic cylinders are highly susceptible to failures such as seal wear, oil leaks, and operational jamming due to the intrusion of impurities. [Hydraulic cylinders for plows](#) are specifically engineered for the harsh conditions of farmland, thoroughly addressing the industry-wide challenges of standard cylinders—such as susceptibility to contamination, lack of wear resistance, and susceptibility to damage—and serve as core components that ensure long-term, stable performance for all types of plowing and deep-tilling equipment.

Compared to standard agricultural hydraulic cylinders, hydraulic cylinders for plows offer outstanding resistance to contamination and wear. The product features a thickened, high-precision honed cylinder barrel and a hard chrome-plated piston rod. With a smooth, dense surface and high hardness, it effectively resists friction and abrasion from mud, sand, and gravel, preventing wear and corrosion of the rod. Combined with a customized multi-layer dust-proof sealing system, these cylinders offer powerful protection against dust, silt, and fluid penetration. They comprehensively block field dust, soil, and fine impurities from entering the cylinder, thereby preventing common failures—such as seal wear, internal pressure loss, and hydraulic fluid leaks—at their source. Even during prolonged, high-frequency operation in high-dust, high-pollution outdoor environments, the cylinder maintains structural integrity and stable performance, significantly reducing the likelihood of breakdowns and downtime while lowering equipment maintenance and operating costs.

With its robust resistance to contamination and wear, this hydraulic cylinder is suitable for a wide range of high-intensity agricultural operations and has an extremely broad range of applications. Hydraulic cylinders for plows are primarily designed for use with mainstream agricultural equipment such as tractor-mounted reversible plows, deep-tilling plows, and variable-width plows, and are precisely suited for various field operations including deep tilling, reclamation of fallow land, turning hard soil, and large-scale land preparation. During operation, the cylinders reliably perform core functions such as raising and lowering the plow body, adjusting the plowing angle, and regulating plowing depth. They remain unaffected by field debris and continuous friction wear, offering responsive operation and precise positioning. This ensures uniform plowing depth and level, standardized tilled soil, making them ideal for both small-scale farmers and large-scale farms requiring continuous operation. By maintaining stable equipment performance, these cylinders help farmers make the most of the farming season and improve overall farming efficiency.

Hebei Runhe Hydraulic Machinery Co., Ltd. specializes in the research, development, and production of various hydraulic components for agricultural machinery. The company precisely identifies the challenges posed by harsh farming conditions and has specifically optimized the contamination-resistant and wear-resistant design of its [hydraulic cylinders for plows](#). Every product is manufactured to industrial-grade precision standards, with strict quality control at every stage—from raw material selection and precision machining to the selection and matching of seals.

Relying on mature precision machining processes and rigorous cleanliness control procedures, the company eliminates manufacturing defects, ensures the surface precision and seal

compatibility of the hydraulic cylinders, and maximizes the products' wear and contamination resistance.

Leveraging its robust manufacturing and customization capabilities, Hebei Runhe Hydraulic Machinery Co., Ltd. offers a full range of standard hydraulic cylinders in stock, while also providing customized production for non-standard sizes, special seals, and high-strength, wear-resistant applications, ensuring comprehensive compatibility with various plow equipment and complex field conditions. Visit the Runhe official website to learn more about [hydraulic cylinders for plows](#).

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