

Farm Equipment Hydraulic Cylinder

[Farm Equipment Hydraulic Cylinders](#) are widely compatible with various types of agricultural machinery, including tractors, harvesters, seeders, balers, deep tillers, and reversible plows. They primarily perform key functions such as lifting, tilting, folding, depth adjustment, and material unloading. With deep expertise in the manufacturing of hydraulic components, our company has gained a precise understanding of the challenges and pain points in agricultural machinery operations. By specifically optimizing product design and production processes, we have ensured that this agricultural-grade hydraulic cylinder is perfectly suited for high-frequency, high-vibration, and high-load field operations, serving as the cornerstone of stable operation for modern agricultural machinery.

In terms of product performance and core specifications, the Farm Equipment Hydraulic Cylinder offers exceptional environmental adaptability and durability. The cylinder body is made of high-precision seamless steel tubing that has undergone a precision honing process, resulting in a smooth, pressure-resistant inner wall that effectively reduces internal friction loss. The piston rod is crafted from high-strength steel and features a thickened hard chrome plating, making it wear-resistant, rust-proof, and resistant to bending and impact. It can withstand long-term use in damp, muddy fields without rusting or damage. The product features a multi-stage composite sealing structure paired with an external dust and debris scraper, providing comprehensive protection against the intrusion of mud, dust, and rainwater, thereby eliminating common failures such as oil leakage, pressure loss, and cross-chamber leakage at their source.

This agricultural machinery hydraulic cylinder is designed for operating temperatures ranging from -30°C to 80°C , ensuring stable performance in both extremely cold and hot environments. It comes standard with a double-acting design, though single-acting configurations are available upon request. The cylinder delivers smooth, linear power output, enabling precise and controllable lifting and fine-tuning movements without jamming, impact, or deviation. The product's standard technical specifications are clearly defined: bore diameter 40 mm – 120 mm, rod diameter 25 mm – 70 mm, stroke 100 mm – 1,000 mm, with customization available for non-standard strokes; rated operating pressure 16 – 25 MPa, burst pressure up to 50 MPa. With ample load-bearing capacity, it fully meets the heavy-duty operational demands of large and medium-sized agricultural machinery. It also supports various mounting methods, including trunnion, eye bolt, flange, and cross-tube, making it compatible with the vast majority of agricultural machinery models on the market.

Looking at the current state of the industry market, the agricultural machinery hydraulic cylinder market is currently polarized. High-end imported brands offer excellent stability but come with high prices, long lead times, and high after-sales maintenance costs, making them unsuitable for mass-production agricultural machinery applications or routine repair and replacement. Conversely, low-end, low-cost products on the market generally suffer from issues such as inferior materials, crude seals, and rough manufacturing processes. While their short-term usage costs are low, their failure rates are extremely high, and the losses from downtime during peak farming seasons far exceed the price difference between these products. As a result, mid-range hydraulic cylinders designed specifically for agricultural machinery—which offer high stability, excellent cost-effectiveness, and support for rapid customization—have become the mainstream choice for both original equipment manufacturers and the agricultural machinery repair market, with market demand continuing to grow steadily.

Thanks to our proven manufacturing technology and rigorous quality control system, our company has become a reliable supplier in the field of agricultural machinery hydraulic components. All of our Farm Equipment Hydraulic Cylinders undergo 100% factory pressure testing, leak testing, and load simulation testing to ensure no defective products are shipped and to guarantee consistent product quality across all batches. Compared to similar products, our agricultural machinery hydraulic cylinders offer a balance of quality and competitive pricing. We support OEM and ODM customization services and can quickly adjust dimensions, interfaces, and mounting specifications based on equipment drawings, resulting in higher delivery efficiency.

Backed by a comprehensive system of pre-sales product selection, technical support, and after-sales service, our company provides one-stop hydraulic solutions for agricultural machinery to customers worldwide. Whether for bulk supply to original equipment manufacturers (OEMs) or for replacement and repair in the aftermarket, we offer precisely matched products. To view detailed technical specifications, customization options, and real-time quotes for our Farm Equipment Hydraulic Cylinders, please visit our official website at any time to inquire about partnership opportunities.

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