



Agricultural Machinery & Equipment: Hydraulic Cylinder Rods in Heavy-Duty Farm Equipment

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# High-Performance Steel Bright Bars for Hydraulic Cylinder Rods

Hydraulic systems power some of the **most essential components in modern agricultural machinery**, including tractors, harvesters, and tilling equipment. **Steelmet Industriesâ?? cold drawn steel bright bars** are widely used in manufacturing **hydraulic cylinder rods**, ensuring **precision**, **durability**, **and corrosion resistance** for heavy-duty farm equipment.

## Why Hydraulic Cylinder Rods Require High-Quality Steel?

Hydraulic cylinders play a critical role in **lifting**, **pushing**, **pulling**, **and controlling various farm implements**. These rods must withstand:

- â?? High pressure and extreme loads â?? Ensuring reliability under constant force
- a?? Corrosion from moisture and chemicals a?? Protecting against rust and wear
- â?? Precise linear motion â?? Maintaining smooth and controlled movement
- a?? Resistance to bending and fatigue a?? Preventing failure under repeated stress

### **Applications in Heavy-Duty Farm Equipment**

### 1. Hydraulic Systems in Tractors & Harvesters

Steel bright bars are used in hydraulic cylinder rods for:

- Tractor lift arms a?? Enabling attachment and adjustment of plows, harrows, and seeders
- Harvester cutting head control a?? Adjusting blade height for optimal crop cutting



• Loader arms & hydraulic lifts a?? Supporting heavy loads during farm operations

#### 2. Tilling & Land Preparation Equipment

Cold drawn bright bars are essential in:

- Hydraulic depth control cylinders a?? Regulating plow and tiller depth for soil consistency
- Leveling and grading attachments a?? Enabling precise land preparation
- Hydraulic press systems a?? Assisting in soil compaction and irrigation channeling

## Steel Grades Used for Hydraulic Cylinder Rods

Steelmet Industries supplies precision-engineered bright bars in:

- EN8 (C45, AISI 1045) a?? Excellent toughness for medium-duty hydraulic applications
- EN19 (42CrMo4, AISI 4140) a?? High-strength alloy steel for heavy-duty farm equipment
- EN24 (40CrNiMo6, AISI 4340) a?? Superior impact resistance and fatigue strength

# **Why Choose Steelmet Industries?**

- ě??¹ Precision-engineered steel bright bars for hydraulic applications
- **ð??¹** Tight tolerances for smooth operation
- ŏ??¹ Corrosion-resistant coatings available
- **8**8??1 Custom sizes to meet OEM specifications

ŏ??? Visit www.steelmet.in for premium-quality steel bright bars for hydraulic applications.

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Steelmet Industries - Bright Bars, Alloy Steels, Stainless Steels