



## 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 Industries's 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:

- **High pressure and extreme loads** • Ensuring reliability under constant force
- **Corrosion from moisture and chemicals** • Protecting against rust and wear
- **Precise linear motion** • Maintaining smooth and controlled movement
- **Resistance to bending and fatigue** • 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** • Enabling attachment and adjustment of plows, harrows, and seeders
- **Harvester cutting head control** • Adjusting blade height for optimal crop cutting

- **Loader arms & hydraulic lifts** – Supporting heavy loads during farm operations

## 2. Tilling & Land Preparation Equipment

Cold drawn bright bars are essential in:

- **Hydraulic depth control cylinders** – Regulating plow and tiller depth for soil consistency
- **Leveling and grading attachments** – Enabling precise land preparation
- **Hydraulic press systems** – 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)** – Excellent toughness for medium-duty hydraulic applications
- **EN19 (42CrMo4, AISI 4140)** – High-strength alloy steel for heavy-duty farm equipment
- **EN24 (40CrNiMo6, AISI 4340)** – Superior impact resistance and fatigue strength

## Why Choose Steelmet Industries?

• **Precision-engineered steel bright bars** for hydraulic applications

• **Tight tolerances** for smooth operation

• **Corrosion-resistant coatings** available

• **Custom sizes** to meet OEM specifications

• Visit [www.steelmet.in](http://www.steelmet.in) for premium-quality steel bright bars for hydraulic applications.

• **Key Applications:**

1. Posts

• **Common Steel Grades:**

1. agricultural hydraulics
2. cold drawn steel bars
3. corrosion-resistant steel
4. farm equipment

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5. heavy-duty farm machinery
  6. hydraulic cylinder rods
  7.  $\frac{1}{2}$ ,  $\frac{3}{4}$ ,  $1$ ,  $1\frac{1}{2}$ ,  $2$ ,  $2\frac{1}{2}$ ,  $3$ ,  $3\frac{1}{2}$ ,  $4$ ,  $4\frac{1}{2}$ ,  $5$ ,  $5\frac{1}{2}$ ,  $6$ ,  $6\frac{1}{2}$ ,  $7$ ,  $7\frac{1}{2}$ ,  $8$ ,  $8\frac{1}{2}$ ,  $9$ ,  $9\frac{1}{2}$ ,  $10$  (Steel Bright Bar)
  8. steel for hydraulic systems
  9. tilling machine hydraulics
  10. tractor hydraulics

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admin

*Steelmet Industries - Bright Bars, Alloy Steels, Free Cutting Steels, Stainless Steels*