



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' 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
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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 for premium-quality steel bright bars for hydraulic applications.

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