



## Agricultural Machinery & Equipment: Linkages and Structural Parts in Harvesting and Tilling Machines

### Description

#### Precision-Engineered Steel Bright Bars for Agricultural Equipment

Modern agricultural machinery demands **high-strength, wear-resistant, and precision-engineered components** to withstand tough field conditions. Steelmet Industries's cold drawn steel bright bars are widely used in manufacturing **linkages and structural parts for harvesting and tilling machines**, ensuring durability, reliability, and long service life.

#### Why Cold Drawn Bright Bars for Agricultural Machinery?

Agricultural machinery operates under **continuous stress, load variations, and exposure to moisture and soil contaminants**. The choice of material directly impacts the performance, efficiency, and longevity of the equipment.

Cold drawn bright bars offer:

- **High strength and toughness** • Withstands heavy loads and impact forces
- **Superior dimensional accuracy** • Ensures precise assembly and movement of parts
- **Smooth surface finish** • Reduces friction and wear in mechanical linkages
- **Consistent material properties** • Enhances reliability and durability

#### Applications in Harvesting and Tilling Machines

##### 1. Linkages for Agricultural Equipment

Bright bars are commonly used to manufacture **linkages that connect various moving parts** in harvesting and tilling machines. These include:

- **Three-point linkages** – Used in tractors to connect implements like plows and harrows
- **Steering and control linkages** – Ensure smooth maneuverability of self-propelled harvesters
- **Suspension arms and stabilizers** – Maintain alignment and balance of heavy agricultural implements

## 2. Structural Components in Tilling & Harvesting Machines

Cold drawn steel bright bars are essential in:

- **Frame structures of tillers and cultivators** – Providing a strong yet lightweight foundation
- **Axle shafts and pivot points** – Ensuring smooth movement and load-bearing capacity
- **Support brackets and reinforcement bars** – Increasing durability under rough terrain conditions

## Steel Grades Commonly Used

Steelmet Industries supplies a variety of grades suited for agricultural machinery, including:

- **EN8 (C45, AISI 1045)** – Medium carbon steel with excellent strength and toughness
- **EN19 (42CrMo4, AISI 4140)** – High tensile strength alloy steel for heavy-duty applications
- **EN24 (40CrNiMo6, AISI 4340)** – Superior impact resistance for extreme conditions

## Why Choose Steelmet Industries?

Steelmet Industries provides **custom-sized bright bars** with **consistent quality, excellent machinability, and superior mechanical properties**, making them the preferred choice for leading agricultural machinery manufacturers.

Visit [www.steelmet.in](http://www.steelmet.in) to explore our range of precision steel bright bars.

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1. Posts

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## Tags

1. Agricultural Machinery
2. farm equipment manufacturing
3. harvesting equipment
4. Precision Steel Bars
5. steel bright bars
6. steel linkages
7. structural parts
8. tilling machines
9. tractor components
10. cold drawn steel

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