



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

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