



## Transmission Shafts and Gears: The Backbone of Automotive Powertrains

### Description

In the **automotive industry**, transmission shafts and gears play a crucial role in power transmission, ensuring smooth vehicle operation. **Cold drawn steel bright bars from Steelmet Industries** are widely used for manufacturing these components due to their **high strength, precision, and superior surface finish**.

### Why Cold Drawn Steel Bright Bars for Transmission Shafts and Gears?

- **High Dimensional Accuracy** • Reduces the need for excessive machining
- **Superior Mechanical Properties** • Ensures high strength and wear resistance
- **Excellent Surface Finish** • Improves fatigue life and reduces friction
- **Customizable Grades & Sizes** • Suitable for various vehicle types

### Applications in Transmission Systems

- **Transmission Shafts** • Connects engine power to the gearbox and wheels
- **Input & Output Shafts** • Transfers torque between components
- **Gear Blanks & Finished Gears** • For manual and automatic transmissions
- **Axle Shafts & Propeller Shafts** • Provides rotational power in drive systems

### Example: Material Grades & Specifications

- **EN8, EN19, EN24, 4140, 8620, 16MnCr5** • Commonly used for shafts and gears
- **Tensile Strength:** 600-1000 MPa, depending on grade and heat treatment

- **Surface Finish:** Ra  $\leq$  0.8  $\mu\text{m}$ , reducing friction and wear

## Why Choose Steelmet Industries?

At **Steelmet Industries**, we provide **precision-engineered cold drawn bright bars** that meet **automotive industry standards** for **strength, durability, and performance**. Our **customized solutions** ensure the perfect fit for your **transmission components**.

Explore our range of high-quality bright bars: [www.steelmet.in](http://www.steelmet.in)

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