



## 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
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**Tensile Strength:** 600-1000 MPa, depending on grade and heat treatment

- **Surface Finish:** Ra ? 0.8 µm, 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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