



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 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

Category

1. Posts

Tags

1. Automotive Components
2. automotive gears
3. gear shafts
4. High-Strength Steel
5. Precision Steel Bars
6. steel for gears
7. Cutting Steels
8. Transmission shafts
9. transmission system
10. cold drawn steel

Date

26/06/2026

Author

admin

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