



Transmission Shafts and Gears: The Backbone of Automotive Powertrains

Introduction

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

