



## Precision Fasteners from Steel Bright Bars

### Description

At **Steelmet Industries**, we understand that the smallest components often bear the biggest responsibilities. Our **cold drawn steel bright bars** form the foundation for **high-performance bolts, screws, nuts, washers, and rivets** that hold critical infrastructure together — from skyscrapers to spacecraft.

## Why Precision Matters in Fastener Manufacturing

Modern fasteners must meet exacting standards:

- **Consistent thread formation** for perfect engagement
- **Reliable tensile strength** under dynamic loads
- **Corrosion resistance** for harsh environments
- **Dimensional stability** across temperature variations

Our bright bars deliver:

- **Surface finish of 0.8-1.6  $\mu\text{m}$  Ra** for smooth thread rolling
- **Diameter tolerance of  $\pm 0.02\text{mm}$**  for precision fits
- **Hardness range of 22-32 HRC** (ideal for cold forming)
- **Custom diameters** from 3mm to 120mm

## Key Fastener Applications

### 1. Structural Fasteners

- **ASTM A325/A490 structural bolts** for steel construction
- **High-strength anchor bolts** (Grade 8.8/10.9)

- Seismic-resistant moment connection bolts

## 2. Automotive Fasteners

- Engine mounting bolts (ISO 898-1 Class 10.9)
- Wheel studs and hub bolts
- Transmission housing screws

## 3. Specialized Fasteners

- Aerospace rivets (NASM/MS standards)
- Marine-grade stainless fasteners (AISI 316)
- High-temperature alloy fasteners for power plants

## Technical Specifications

Grade	Standard	Tensile Strength	Yield Strength	Key Applications
C45	ISO 898-1	800-1000 MPa	640 MPa min	General purpose bolts
40CrMo4	ASTM A193 B7	1000-1200 MPa	850 MPa min	High-temp fasteners
316 Stainless	ASTM A193 B8M	515 MPa min	205 MPa min	Marine/chemical plants
10B21	SAE J429	900 MPa min	700 MPa min	Cold-formed screws

Discover our fastener-grade bright bars at [Steelmet Industries's website](#) or request samples for your next production run.

### CategorÃa

1. Posts

### Etiquetas

1. aerospace rivets
2. automotive bolts
3. cold heading steel
4. fastener manufacturing

5. high-strength fasteners
6. industrial fasteners
7. precision bolts
8. screw production
9. speciality fasteners
10. steel bright bars

**Fecha**

08/05/2026

**Autor**

admin

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