



Precision Fasteners from Steel Bright Bars

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At **Steelmet Industries**, we understand that the smallest components often bear the biggest responsibilities. Our cold under that hold critical infrastructure regenerates spacecraft.

Why Precision Matters in Fastener Manufacturing responsibilities. Our cold drawn steel bright bars form the foundation for high-performance bolts, screws, nuts, washers, and rivets that hold critical infrastructure together â?? from skyscrapers to

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

#### Our bright bars deliver:

- a?? Surface finish of 0.8-1.614m Ra for smooth thread rolling
- â?? Diameter tolerance of ±0.02mm for precision fits
- a?? Hardness range of 22-32 HRC (ideal for cold forming)
- a?? 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

## Specialized Fasteners

- Aerospace rivets (NASM/MS standards)

   Marine-grade stainless fasteners (AISI 316)

  \*\*Totalers for power plants\*

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# **Technical Specifications**

Grade	Standard	<b>Tensile Strength</b>	<b>Yield Strength</b>	<b>Key Applications</b>
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 Industriesâ?? website or request samples for your next production run.

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1. Posts

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- 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. ठॕà¤?à¥?ल बॕराà¤?à¤? बार (Steel Bright Bar)

Date 01/11/2025 लà¥?à¤?à¤? admin

Steelmet Industries - Bright Bars, Alloy Steels, Stainless Steels