



## Anchor Bolts, Foundation Bolts, and Fasteners

### Description

#### Precision Steel Bars for Critical Structural Connections

In the construction and infrastructure sector, **anchor bolts, foundation bolts, and industrial-grade fasteners** form the backbone of structural integrity. Whether embedded in concrete foundations, connecting structural steel columns, or securing heavy equipment, these components must withstand dynamic loads, vibrations, and environmental stressors.

**Steelmet Industries' cold drawn steel bright bars** are an excellent raw material for manufacturing such components. With **tight dimensional tolerances, superior surface finish, and consistent mechanical properties**, they deliver both **performance and reliability** for high-stakes construction applications.

#### Where Bright Bars Are Used in Bolting Applications

- ? **Anchor Bolts** – Used to anchor structures to concrete foundations in bridges, buildings, and towers
- ? **Foundation Bolts** – For heavy-duty equipment foundations in industrial facilities
- ? **U-bolts, L-bolts, J-bolts** – For custom anchoring needs
- ? **Threaded Fasteners & Studs** – Precision threads for structural and equipment assembly
- ? **T-bolts & Expansion Fasteners** – Used in rail systems, tunnels, and prefabricated infrastructure

#### Why Steel Bright Bars from Steelmet Are Ideal for Bolts & Fasteners

- ? **Superior Surface Finish** – Essential for thread rolling, threading dies, and coating adhesion
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? **High Tensile and Yield Strength** – Withstands static and dynamic loads

- ? **Excellent Machinability** – Reduces tool wear during threading and shaping
- ?? **Tight Dimensional Tolerance** – Ensures thread compatibility and precision
- ?? **Suitable for Galvanizing & Coating** – Prevents corrosion in outdoor installations

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## Typical Steel Grades Used

### ? EN8 / C45 (AISI 1045)

Most commonly used for **medium-strength bolts and anchor rods**, offering a good balance between strength and machinability.

### ? EN19 / 42CrMo4

Used in **high-strength foundation bolts** and fasteners that require impact resistance and higher fatigue life.

### ? EN1A / 230M07

Ideal for **small to medium-sized fasteners** requiring **high-speed machining** with excellent surface finish.

### ? SS304 / SS316

Used in **corrosion-prone environments** such as coastal construction, marine infrastructure, or chemical plant foundations.

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## Trusted by Construction Professionals Across India

Steelmet Industries supplies **bright bars** for fastener and bolt manufacturers serving **metro rail projects, high-rise towers, infrastructure development firms, and heavy industry EPC contractors**.

- ? **Bulk and custom orders accepted**
- ? **Documentation and test certificates provided**
- ? **Cut-to-length and surface-finished bars available**

? Learn more and request a quote at: [www.steelmet.in](http://www.steelmet.in)

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**Author**

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