
Common Steel Grades Used:

- **42CrMo4 (AISI 4140) / EN19** Excellent strength and wear resistance
- **C45 / AISI 1045** Medium carbon steel with good toughness
- **EN8 / AISI 080M40** Cost-effective option with moderate strength

2. Camshafts

Camshafts control the timing of the intake and exhaust valves in an engine. They require **high wear resistance and dimensional precision**.

Advantages of bright bars for camshafts:

- **High hardness and wear resistance** for prolonged service life
- **Precision tolerance** for smooth movement and efficient engine timing
- **Consistency in quality** for reduced machining and grinding time

Common Steel Grades Used:

- **EN36 (AISI 9310)** Case-hardening steel for high surface hardness
- **EN24 (AISI 4340)** High-strength alloy steel for heavy-duty camshafts
- **16MnCr5** Used for case-hardening applications

3. Connecting Rods

Connecting rods transfer the force from the piston to the crankshaft, converting reciprocating motion into rotary motion. They must be **lightweight yet strong enough to withstand cyclic loading**.

Advantages of bright bars for connecting rods:

- **High tensile strength** to endure high dynamic forces

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13. Steel Grades for Automotive
 14. Steelmet Industries
 15. Wear Resistant Steel

Date

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