



EN8 Cold Drawn Bright Hexagonal Bars ?? 12.7mm to 65mm A/F ?? Precision Steel for High-Strength Components

Description

EN8, per **BS970:1955**, is a medium carbon steel known for its balance of strength, toughness, and machinability. When processed into **cold drawn bright hexagonal bars**, EN8 becomes even more suitable for precision-machined parts with enhanced surface finish and tighter dimensional control.

At **Steelmet Industries**, we offer EN8 Cold Drawn Bright Hexagon Bars in **across-flat (A/F) sizes ranging from 12.7mm to 65mm**, with precise tolerances and consistent mechanical properties??ideal for tools, fasteners, shafts, and engineering assemblies that require both strength and aesthetics.

Key Technical Features

- **Standard:** BS970:1955
- **Grade:** EN8 (Equivalent to 080M40 in BS970:1991)
- **Size Range:** 12.7mm A/F to 65mm A/F
- **Condition:** Cold Drawn + Bright Finished
- **Shape:** Hexagonal ?? Across Flats (A/F)
- **Tensile Strength:** 600 ?? 750 MPa

- **Yield Strength:** 300 ?? 450 MPa
- **Hardness:** 180 ?? 230 BHN (as drawn)
- **Finish:** Bright, Clean, and Oiled
- **Machinability:** Very Good
- **Heat Treatment:** Hardening and tempering possible

Applications of EN8 Bright Hexagons

- Wrench Heads and Tooling Fixtures
- Machine and Drive Shafts
- Spanners, Bolts, Nuts, and Mechanical Fasteners
- Hex Couplers, Connectors, and Joinery Components
- Automotive parts such as steering linkages and stub axles
- Engineering assemblies needing **dimensional precision and strength**

Why Choose Cold Drawn Bright Hex Bars?

- **Improved dimensional accuracy** vs. hot rolled hexagons
- **Superior surface finish** ideal for further processing or coating
- **Strain hardened properties** allow for stronger performance

- Reduced machining time and tool wear
- **Minimized material wastage** due to precise sizing

Alternate Supply Options from Steelmet Industries

- EN8 Black Hexagons, Rounds, Squares, Flats
- EN8 Bright Bars in **rounds, squares, and flats**
- Higher purity EN8D Bright Bars available
- Custom supply in **cut lengths, bundle packing, and bar coding**
- EN9, EN1A, C45, SAE1045 also available in bright hexagon sections

Explore our full capabilities at [What We Do](#)

Global Grade Equivalents to EN8

Standard	Equivalent Grade
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AISI / SAE	1040 / 1045
EN (New)	C40E / C45E (EN10083)
DIN	CK45 / 1.1191
ISO	C45
JIS	S45C
GOST	45
IS	IS 1570 C45
BS (Old)	EN8
BS (New)	080M40
GB (China)	45#

Note: Chemical and mechanical property confirmation is advised before substitution. For more details, refer to our [BS970:1955 Standard](#).

Steelmet Industries ?? Delivering Precision and Strength

- Bright hexagons from 12.7mm to 65mm A/F
- Custom length supply for faster production
- Machining-ready surfaces to reduce downstream work
- ^{3/4} Third-party inspection reports, MTCs, and transport proofs available

- Serving both domestic and international customers with quality & consistency
- Prompt, scheduled deliveries backed by reliable logistics

Read our [Quality Policy](#) to understand our process-driven commitment.

Frequently Asked Questions ?? EN8 Bright Hex Bars

Q1: What does cold drawn bright hexagon mean?

A: Cold drawing is a process of pulling hot-rolled bars through a die, improving dimensional accuracy, surface finish, and mechanical strength. The bright finish is clean, polished, and free of scale.

Q2: What tolerance do EN8 cold drawn hex bars maintain?

A: Tolerances as per IS, DIN, or customer-specified norms are achievable typically h11 or tighter based on requirements.

Q3: Can I order custom cut-to-length bars?

A: Yes. Steelmet offers custom cutting services to minimize scrap and optimize productivity at your end.

Q4: Are these bars weldable?

A: Yes, though EN8 has medium carbon content. Pre-heating and post-weld stress relief are recommended.

Q5: What packaging options are available?

A: Bars are supplied in bundled form with steel straps, ID tags, and optional bar coding or plastic wrapping as per agreement.

Ready to Order EN8 Bright Hex Bars?

??Phone (India): 0712-2728071

??Phone (International): +91-712-2728071

??± WhatsApp: +917122728071

??• Website: www.steelmet.in

??© Quick Enquiry: <https://www.steelmet.in/cms/en/contact-us/enquiry.html>

Category

- 1. BS970 1955 EN8 Steel and variants

Tags

- 1. Bright Hexagonal Bars
- 2. Cold Drawn Hex Steel
- 3. EN8 080M40
- 4. EN8 Bar Stock
- 5. EN8 Bright Bars
- 6. EN8 Hexagon Bars
- 7. EN8 Machining Grade
- 8. Hex Bar India
- 9. Medium Carbon Hex Steel

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Author

admin