



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 Hexagonal 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
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 â?? 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
- **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 â?? EN8 Bright Hex Bars

Q1: What does â??cold drawn bright hexagonâ? mean?

A: Cold drawing is a process of pulling hot-rolled bars through a die, improving dimensional accuracy, surface finish, and mechanical strength. The â??brightâ? 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 achievableâ??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>

Categorie

1. BS970 1955 EN8 Steel and variants

Tags

1. Bright Hexagonal Bars
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3. EN8 080M40
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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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Auteur

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