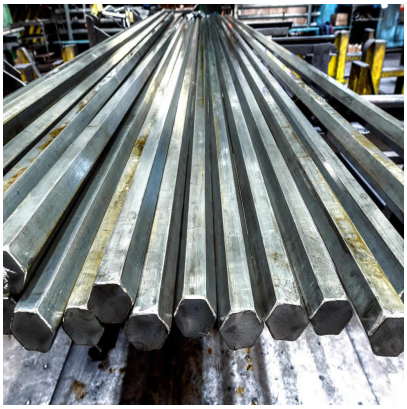


EN8 Black Hexagons â?? 20mm to 80mm â?? Tough & Machinable Carbon Steel Bars

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

Description

EN8 (BS970:1955) is a **medium carbon steel** with good tensile strength and machinability, making it highly popular for general engineering applications. In **black hexagon form**, it offers strength and form factor ideal for **wrench flats, bolt heads, spanners, shafts**, and more.

Steelmet Industries supplies **EN8 Black Hexagon bars** in the size range of **20mm to 80mm A/F**, with excellent control over dimensions, surface finish, and chemistryâ??ideal for machining and mechanical use.

Key Features of EN8 Black Hexagons

- **Standard:** BS970:1955
- **Grade:** EN8
- **Form:** Hot Rolled Black Hexagons
- **Size Range:** 20mm to 80mm A/F (Across Flats)
- **Condition:** As Rolled / Normalized / Annealed
- **Tensile Strength (UTS):** 550â??650 MPa (typically)

- **Yield Strength:** 280â??360 MPa
- **Elongation:** ~16â??20%
- **Hardness:** 160â??220 BHN (approx.)
- **Machinability:** Good
- **Weldability:** Fair â?? Preheating recommended
- **Heat Treatment:** Hardenable by quenching and tempering

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

Typical Applications of EN8 Hexagon Bars

- Manufacturing of **spanners, wrenches, bolts, and fasteners**
- **Drive shafts, machine keys, and axles**
- **Jigs, fixtures, tool holders, and connecting rods**
- **Engine parts**, hubs, bushings, and gears
- Construction and heavy-duty engineering components
- Suitable for further heat treatment if higher strength is needed

Alternate Supply Options & Related Products

Steelmet Industries can also supply:

- **EN8 Rounds, Squares, and Flats**

- **Cold Drawn Bright Bars in EN8**
- **EN8D for higher purity and impact resistance**
- **Hexagons in EN1A, EN9, EN19, C45, and SAE1045 grades**
- Cut-to-length supply based on customer requirements
- Heat treated or normalized bars available on request

Learn more about What We Do.

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

Global Equivalents of EN8 (BS970:1955)

Standard	Equivalent Grade
AISI / SAE	1040 / 1045
EN (New)	C40E / C45E (EN10083)
DIN	CK45 / 1.1191
ISO	C45
JIS	S45C
GOST	45
IS	1570 C45 / IS:1875 C45
BS (Old)	EN8
BS (New)	080M40
GB (China)	45#

Disclaimer: Always confirm equivalency based on chemical & mechanical properties.

View BS970:1955 Standard and DIN Specifications.

Why EN8 Hexagons from Steelmet Industries?

- ð??• **Size Range:** 20mm to 80mm A/F â?? with tight tolerances
- â??ï¸• **Cut-to-length or long bar supply**

- ð?? ï¸• **Custom machining and prep options possible**
- ð??¦ **Bundled packaging and identification tags**
- â•±ï¸• **Timely, scheduled deliveries across India & exports**
- ð??? **Third-party inspections, MTCs, test reports available**
- ð??• **Export-capable with multilingual documentation**

See our commitment to Quality.

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Frequently Asked Questions â?? EN8 Black Hexagon Bars

Q1: What are EN8 black hexagons used for?

A: EN8 hexagons are used for spanners, bolts, shafts, mechanical linkages, and fasteners that require medium strength and machinability.

Q2: Can EN8 hexagons be heat treated?

A: Yes. EN8 is hardenable by oil quenching and tempering. It can be normalized or annealed before further processing.

Q3: Are bright EN8 hexagons better than black ones?

A: Bright bars have tighter tolerances and better surface finish, but black hexagons are more cost-effective for heavy-duty and hot-machined parts.

Q4: Is EN8 weldable?

A: Yes, with preheating. Its medium carbon content requires proper procedures to avoid cracking.

Q5: Do you supply specific cut lengths or custom sizes?

A: Yes. Steelmet can supply custom cut lengths and sizes with advance notice and mutual agreement.

Call to Action â?? Enquire Today

ð??? **Phone (India):** 0712-2728071
ð??? **Phone (International):** +91-712-2728071
ð??• **Website:** www.steelmet.in
ð??© **Quick Enquiry Form:** Contact Us

Category

1. BS970 1955 EN8 Steel and variants

Tags

1. BS970 EN8
2. EN8 080M40
3. EN8 Black Hex Bar
4. EN8 Fastener Bar
5. EN8 Hexagons
6. Hex Shaft Steel
7. Hex Stock
8. Hot Rolled Hex Bars
9. India Hexagon Steel
10. Medium Carbon Steel Hexagon

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