



**LIBERTY**

**STEEL**

# Engineering Bar

Engineered for high  
precision applications

We have an established and proven track record of supplying high quality hot rolled bar and coil, as well as cold finished bar into a diverse range of markets.

Typical applications include hydraulics, yellow goods and general machining, all of which require consistent supply of quality materials that are tailored to our customers' needs.

MEMBER OF



## Services

We can offer a tailored service package focused on individual needs:

- Extensive heat treatment capability including spheroidal annealing, annealing to hardness or grain structure, normalising, stress relieving, quench and tempering
- Chamfering/facing one or both ends
- Hire rolling
- Cutting to length for requirements <3 metres
- Special packaging to individual customer requirements
- Turning
- Bright drawing

## Product

We can offer customers an extensive range of grades based on their technical requirements:

- Low and medium carbon free-cutting steels
- Carbon manganese steels
- Boron treated steels
- Case carburising steels
- Micro alloy steels
- Alloy through hardening steels
- Free cutting steels
- Nitriding steels
- Enhanced machinability steels, including leaded variant steels
- Bearing steels

## Customer approvals

Bright Bar Delphi, Autoliv, Caterpillar, JCB, Citroen, Peugeot, Ford, Renault, Volvo, Scania

## Accreditations

IATF 16949, BS EN ISO9001, BS EN ISO17025, BS EN ISO 14001

## Supply

Supply	Type	Shape	Metric (mm)	Imperial (inches)
Bright	Bar	Round drawn	8 - 90	0.31 - 3.54
		Hexagon drawn	10 - 70	0.72 - 1.56
		Round turned	19 - 230	0.75 - 9.05
		Round heat treated	10 - 225	0.39 - 8.86
		Hexagon heat treated	10 - 76	0.39 - 2.99
Black	Bar 4500 mm - 14700 mm	Round	22 - 105	0.87 - 4.13
		Hexagon	22 - 80	0.87 - 3.15
	Coil 2150kg - 3225kg	Round	15.5 - 52	0.73 - 2.04
		Hexagon	15 - 42.5	0.72 - 1.67
		Square	14 - 27	0.55 - 1.06

## Technical support

We have a comprehensive technical support team available to advise on grade selection and product range to achieve the maximum benefit. Customer Technical support provide specialist advice and help with day-to-day problem solving.

Works based metallurgists and the full resources of our Steel Research and Development Laboratories are available to assist with longer-term developments.

For further information, enquiries or any technical guidance on our range of products please contact our experts using the details below.

Please note: Black bar, black coil, and as-cast products are all supplied in air-cooled condition.

### LIBERTY SPECIALITY STEELS

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