



敬业集团
JINGYE GROUP



BRITISH
STEEL



线材产品手册
Wire Rod
Product Range

BUILDING STRONGER FUTURES

2020

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欢迎来到英国钢铁公司

英国钢铁公司是欧洲领先的钢铁制造商之一，每年生产约450万吨优质钢材。公司提供高品质的钢轨、型钢、异型钢、线材及各种钢材半成品，广泛应用于全球高端工业领域。

2020年3月，英国钢铁公司被中国知名跨行业集团公司 - 敬业集团收购，从此开启了公司的新篇章。

英国钢铁已经有150多年的光荣历史，我们坚信在接下来的岁月里能够继续创造辉煌。

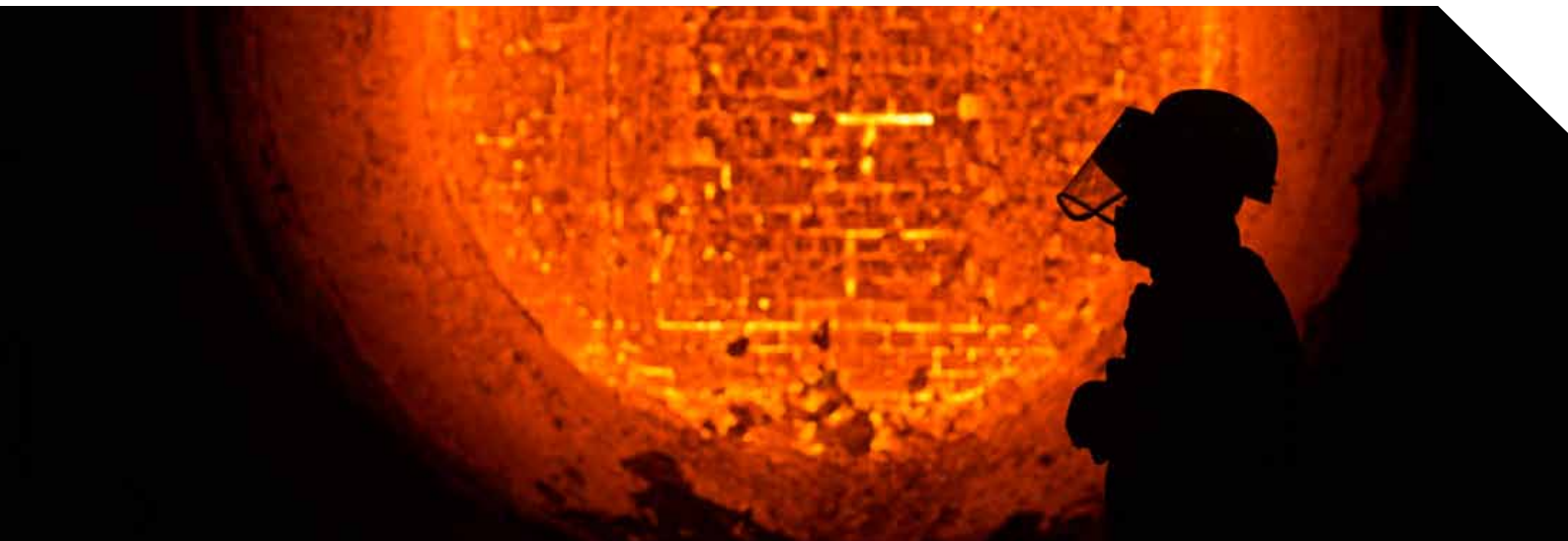


WELCOME TO BRITISH STEEL

British Steel is one of Europe's leading steel manufacturers, producing around 4.5 million tonnes of quality steel products every year. We supply high-quality rail, sections, special profiles, wire rod and a variety of semi-finished products for some of the most demanding applications around the world.

In March 2020, we were bought by distinguished Chinese multi-industrial company Jingye Group, beginning a new chapter in British steelmaking.

Our steelworks have existed for around 150 years and we're excited about what we can collectively achieve to build a successful future for many years to come.



敬业集团简介

敬业集团是以钢铁为主业，兼营钢材深加工、国际贸易、粉末冶金3D打印、旅游、酒店的跨行业集团公司，现有员工27000名。

2019年集团销售收入1274亿元，上缴税金45.3亿元，在全国500强企业名列217位，中国制造业排名95位。2014年9月28日，重组内蒙古乌兰浩特钢铁有限责任公司；2020年3月9日正式收购英国钢铁公司，成为跨国企业集团。“敬业”商标是中国驰名商标，敬业品牌价值312.95亿元。

敬业集团是全球大型螺纹钢生产基地、国家高强钢筋生产示范企业、国家高新技术企业。成功开发了船板、桥梁板、高层建筑用钢、高强抗震螺纹钢、圆钢等系列高附加值品种钢，产品畅销国内，并出口到80多个国家和地区，应用于北京大兴国际机场、南水北调、石家庄地铁系统、雄安市民服务中心、文莱跨海大桥、巴基斯坦核电站等国内外重点工程建设中。被中国中铁、中国电建、中国路桥、中国建筑等多家央企列为优秀供应商。

敬业集团将认真贯彻党的十九大精神及习近平新时代中国特色社会主义思想，在各级党委、政府指引下，持续推进转型升级，坚持绿色发展高质量发展，按企业“四化”部署，打造中国建筑精品钢铁基地、循环经济示范园、钢材深加工基地与高新技术产业基地，做大钢材深加工、国际贸易、高科技、康养旅游四大板块，利用收购英钢契机，统筹国内外资源做全球钢材和金属制品供应服务商、全球小矿种及各种能源贸易商，朝着国内效益最好、国际一流的企业集团目标大步迈进！

Jingye Group profile

Jingye Group is a multi-industry group mainly engaged in steel business, complemented by steel deep processing, international trade, powder metallurgy and 3D printing, tourism and hospitality businesses. It's currently staffed with 27,000 employees.

In 2019, the Group's sales revenue reached 127.4 billion yuan, and taxes paid amounted to 4.53 billion yuan. It ranks 217th among the top 500 companies in China and 95th in the manufacturing industry in China. On September 28, 2014, the Group reorganized Inner Mongolia Ulanhot Steel Co., Ltd.; On March 9, 2020, the Group became a multinational enterprise group with the acquisition of British Steel Limited. The "Jingye" trademark is a well known trademark in China, JINGYE brand value 31.295 billion yuan.

Jingye Group is a large global steel rebar production base, a national high-strength steel bar production demonstration enterprise, and a national high-tech enterprise. The Group has successfully developed a series of high value-added steels such as ship plates, bridge plates, high-rise building steels, high-strength seismic rebars and round steels. The products are sold well in China and exported to more than 80 countries and regions. They are applied to the construction of Beijing Daxing International Airport, South-to-North Water Diversion Project, Shijiazhuang Subway System, Xiong'an Citizen Service Center, Brunei Cross-sea Bridge, Pakistan Nuclear Power Plant and other key projects at home and abroad. The Group has been listed as an excellent supplier by many central enterprises, including China Railway, China Power Construction, China Road and Bridge and China Construction.

To conscientiously implement the spirit of the 19th National Congress of the Communist Party of China and Xi Jinping's thought of socialism with Chinese characteristics in the new era, the Group will continuously advance transformation and upgrading as guided by the Party committees and governments at all levels, and insist on green development and high-quality development. According to the corporate strategy of Intelligence, Customer Centralization Internationalization, and Asset Light Model, the Group will build a high-quality steel base in China, a demonstration park of circular economy, a steel deep processing base and a high-tech industry base. The Group will continually expand the four sectors of steel deep processing, international trade, high technology and recreational tourism, and integrate domestic and international resources via the acquisition of British Steel Limited. Giving full play to its role as a global supplier of steel and metal products, a global trader of small minerals and various energy sources, the Group will march toward the goal of the most economically-efficient enterprise in China and an international first-class enterprise!

市场应用

公司按照国际标准制造各种产品，广泛应用于各种行业和领域，为日新月异的世界作出了巨大贡献。

公司生产的钢材帮助建造了一些世界上最具标志性，且举世瞩目的项目，包括：

- 伦敦碎片大厦
- 伦敦横贯铁路
- 吉隆坡双子塔
- 伊斯坦布尔卡米利卡塔
- 纽约洋基体育场
- 海洋和谐号游轮

THE MARKETS WE SERVE

Our wide range of products, manufactured to internationally recognised standards, are used in many markets and demanding applications, helping share the modern world we see around us every day.

Our steel has helped build some of the world's most iconic and awe-inspiring projects, including:

- The Shard, London
- Crossrail, London
- Petronas Towers, Kuala Lumpur
- Camlica Tower, Istanbul
- Yankees Stadium, New York
- Harmony of the Seas cruise ship

汽车领域
Automotive



建筑行业
Construction



能源和电力
Energy & Power



施工与土方工程设备
Construction & Earthmoving Equipment



国防与安全
Defence & Security



Photo courtesy of Andrew Linnett/MOD

铁路
Rail Infrastructure



消费品
Consumer Goods



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关于线材产品

为汽车、建筑、工程和消费品等市场提供各种线材产品。高性能线材和拉丝产品可满足各种应用的严格要求，包括紧固件、汽车弹簧、轮胎钢丝、轨道卡箍和轴承。

位于英国斯肯索普（Scunthorpe）和荷兰阿尔布拉瑟丹（Alblasserdam）的工厂均已通过了IATF16949认证- 国际通用的汽车行业质量管理体系标准。

拥有专业的技术团队、客户支持和本地销售网络，可为客户提供灵活、快速的服务。技术团队随时为您提供钢材选择和加工方面的建议，敬业的研发专家与客户、大学和研究机构合作，正在为要求越来越高的应用开发新的和更高级的钢材得益于短周期轧制程序和灵活的库存解决方案，可按需要精确地交付客户所需的钢材。

除了线材生产厂外，在阿尔布拉瑟丹（Alblasserdam）的工厂还拥有最先进的线材加工中心，可为全球汽车、建筑和工程行业生产退火材、酸洗线和拉丝材。

ABOUT WIRE ROD

We produce a wide range of wire rod products for markets including automotive, construction, engineering and consumer goods. Our high-performance wire rod and drawn wire meet the strict demands of a huge range of applications, including fasteners, automotive springs, tyre reinforcement, rail clips and bearings.

Our mills, based in Scunthorpe (UK) and Alblasserdam (the Netherlands), have both received IATF 16949 certification – the internationally-adopted quality management system standard for the automotive industry.

We offer a flexible, responsive service, with dedicated technical teams, customer support and local sales network. Our technical team is always on hand to provide advice on steel selection and processing, and our dedicated R&D experts work in partnership with customers, universities and research institutions to develop new and more advanced grades of steel for increasingly demanding applications.

Thanks to our short-cycle rolling programmes and flexible stock solutions, we can deliver precisely the steel you need – just when you need it.

In addition to our mills manufacturing wire rod, our Alblasserdam site also has a state-of-the-art wire processing centre that produces annealed and pickled wire rod and drawn wire for the global automotive, construction and general engineering industries.



棒材厂，斯肯索普，英国
Rod Mill, Scunthorpe, UK



棒材厂和线材加工中心，阿尔布拉瑟丹，荷兰
Rod Mill and Wire Processing Centre, Alblasserdam,
The Netherlands

1 冷镦钢

COLD HEADING



1 冷镦钢 COLD HEADING

用于生产紧固件的高性能线材和钢丝

英国钢铁公司的冷镦钢可提供：

- 优异的淬透性，性能在冷成型和后续热处理时保持稳定使钢材可用于生产更大/更高强度的零件（硼钢）；
- 改善了延展性、可成形性和强度，可用于多种应用（低碳铝镇静钢）

还可以提供：

- 适用于各种牌号和规格的快速交货程序
- 关于产品选择的专业建议
- 通过阿尔布拉瑟丹 (Albasserdam) 的线材加工中心进行深加工

线材规格 Wire rod dimensions

线材直径 Rod diameter	5.5 - 30.0mm, 0.5mm递增	5.5 - 30.0mm in 0.5mm increments
整卷重量 Coil weight	1,800 - 2,200kg	
整卷长度 Coil length	1,000 - 1,700mm	
整卷尺寸 Coil dimensions	外径：最大1,300mm Outside diameter: 1,300mm max 内径：最小：800mm Inside diameter: 800mm min	

注：
整卷重量和长度取决于线材直径和牌号的组合；具体线材卷尺寸在下订单/询盘时应进行商定。

Note:

Coil weight and length are dependent on rod diameter and grade combination. Specific coil package dimensions to be agreed at time of order placement/enquiry.

下表列出了英国钢铁公司冷镦钢牌号的典型化学分析；可根据要求定制其他牌号，例如硅镇静钢。

High-performance wire and wire rod for fasteners and fixings

British Steel cold heading grades offer:

- Excellent hardenability and perform consistently in cold forming and subsequent heat treatments, allowing steel to be used to produce larger /higher strength components (boron steels)
- Improved levels of ductility, formability and strength for use in multiple applications (low carbon aluminium killed steels)

We also offer:

- A dedicated short cycle rolling programme for a comprehensive range of grades and sizes
- Technical expertise to support effective product selection
- Processing via our Wire Processing Centre, Albasserdam

The following tables indicate the typical chemical analysis for British Steel's cold heading grades. Other grades e.g. silicon-killed can be considered and are available upon request.

硼钢 Boron grades

典型产品的化学分析（钢包）和拉伸强度
Typical supplied chemical analysis (ladle) & tensile strength

标准 Standard	牌号 Grade	C	Si	Mn	P	S	Al	Cr	N	Ti	B	UTS (MPa)
EN 10263-3	18B2	0.17-0.18	<0.10	0.75-0.80	<0.015	<0.015	0.025-0.040	<0.05	<0.009	0.020-0.040	0.002-0.004	440-500
	22MnB4	0.21-0.22	<0.10	0.93-0.98	<0.015	<0.015	0.025-0.040	<0.05	<0.009	0.020-0.040	0.002-0.004	490-540
	22MnB4+Cr	0.22-0.23	<0.10	0.92-0.97	<0.015	<0.015	0.025-0.040	0.25-0.30	<0.009	0.020-0.040	0.002-0.004	520-580
EN 10263-4	17B2	0.17-0.18	<0.10	0.80-0.85	<0.015	<0.015	0.025-0.040	<0.05	<0.009	0.020-0.040	0.002-0.004	440-500
	23B2	0.21-0.22	<0.10	0.83-0.88	<0.015	<0.015	0.025-0.040	0.08-0.13	<0.009	0.020-0.040	0.002-0.004	500-550
	28B2	0.25-0.26	<0.10	0.85-0.90	<0.015	<0.015	0.025-0.040	0.13-0.18	<0.009	0.020-0.040	0.002-0.004	540-600
	33B2	0.34-0.35	<0.10	0.60-0.65	<0.015	<0.015	0.025-0.040	<0.05	<0.009	0.020-0.040	0.002-0.004	520-580
	38B2+Cr	0.37-0.38	<0.10	0.76-0.80	<0.015	<0.015	0.025-0.040	0.20-0.30	<0.009	0.020-0.040	0.002-0.004	620-670
	20MnB4*	0.21-0.22	<0.10	0.90-1.00	<0.015	<0.015	0.025-0.040	<0.05	<0.009	0.020-0.040	0.002-0.004	490-540
30MnB4+Cr	23MnB4*	0.21-0.22	<0.10	0.90-1.00	<0.015	<0.015	0.025-0.040	<0.05	<0.009	0.020-0.040	0.002-0.004	490-540
	30MnB4+Cr	0.29-0.31	<0.10	0.85-0.90	<0.015	<0.015	0.025-0.040	0.15-0.20	<0.009	0.020-0.040	0.002-0.004	560-620

*也可提供添加最高0.3%铬含量的牌号，以满足客户要求。

*Grades also available with chromium addition up to 0.3% max to meet customer requirements.

铝镇静钢牌号 Aluminium killed grades

		典型产品的化学分析（钢包）和拉伸强度 Typical supplied chemical analysis (ladle) & tensile strength								
标准 Standard	牌号 Grade	C	Si	Mn	P	S	Al	Cr	N	UTS (MPa)
EN 10263-2	C4C	0.04-0.05	<0.05	0.33-0.38	<0.015	<0.015	0.030-0.050	<0.05	<0.006	350-390
	C8C	0.06-0.07	<0.05	0.33-0.38	<0.015	<0.015	0.030-0.050	<0.05	<0.006	360-400
	C10C	0.10-0.11	<0.05	0.37-0.42	<0.015	<0.015	0.030-0.050	<0.05	<0.006	380-420
	C15C	0.15-0.16	<0.05	0.50-0.55	<0.015	<0.015	0.030-0.050	<0.05	<0.006	430-470
	C17C	0.18-0.19	<0.05	0.70-0.80	<0.015	<0.015	0.030-0.050	<0.05	<0.006	470-520
	C20C	0.19-0.21	<0.05	0.75-0.85	<0.015	<0.015	0.030-0.050	<0.05	<0.006	485-535
EN 10263-3	C10E2C	0.10-0.11	<0.05	0.37-0.42	<0.015	<0.015	0.030-0.050	<0.05	<0.006	380-420
	C15E2C	0.15-0.16	<0.05	0.50-0.55	<0.015	<0.015	0.030-0.050	<0.05	<0.006	430-470
	C17E2C	0.18-0.19	<0.05	0.70-0.80	<0.015	<0.015	0.030-0.050	<0.05	<0.006	470-520

合金钢 Alloyed grades

		典型产品的化学分析（钢包）和拉伸强度 Typical supplied chemical analysis (ladle) & tensile strength								
标准 Standard	牌号 Grade	C	Si	Mn	P	S	Al	Cr	Mo	B
EN 10263-4	37Cr4	0.34-0.41	<0.10	0.60-0.90	<0.025	<0.025	0.020-0.060	0.90-1.20	-	-
	41Cr4	0.38-0.45	<0.10	0.60-0.90	<0.025	<0.025	0.020-0.060	0.90-1.20	-	-
	34CrMo4	0.30-0.37	<0.10	0.60-0.90	<0.025	<0.025	0.020-0.060	0.90-1.20	0.15-0.30	-
	30MoB1	0.28-0.32	<0.30	0.80-1.00	<0.025	<0.025	0.020-0.060	0.20-0.30	0.08-0.12	0.002-0.005



2 易切削钢

FREECUTTING



2 易切削钢 FREECUTTING STEEL GRADES

用于精密零件的含铅和无铅易切削线材

对于汽车和办公设备市场，与无铅产品相比，含铅易切削钢在降低加工成本方面具有显著优势。

经由大量研发工作，我们的易切削钢有以下优势：

- 设计能够承受高速制造工艺
- 提高加工成型速度；
- 在要求可加工性和强度相结合的情况下，提供更高的综合性能
- 延长了刀具的使用寿命
- 通过灵活的轧制程序提供各种规格尺寸

Leaded and non-leaded freecutting wire rod for precision components

For the automotive and office equipment markets, our leaded freecutting steels offer an advantage in reduction of processing costs compared to non-leaded products.

These grades are developed for the efficient, accurate and high-speed machining of large volume engineering components. In addition to access to R&D to support development activities, we offer freecutting grades that:

- Are designed to withstand high speed manufacturing processes
- Enhance machinability enabling a reduction in machining times (leaded freecutting grades)
- Offer high performance where a combination of machinability and strength is required
- Promote long tool life
- Are supplied in a comprehensive range of sizes offered via a flexible rolling programme

线材规格 Wire rod dimensions

线材直径 Rod diameter	5.5 - 30.0mm, 0.5mm增量 5.5 - 30.0mm in 0.5mm increments
整卷重量 Coil weight	1,800 - 2,200kg
整卷长度 Coil length	1,000 - 1,700mm
整卷尺寸 Coil dimensions	外径：最大:1,300mm Outside diameter: 1,300mm max 内径：最小：800mm Inside diameter: 800mm min

注：
整卷重量和长度取决于线材直径和牌号的组合；具体线材卷尺寸在下订单/查询时应进行商定。

Note:
Coil weight and length are dependent on rod diameter and grade combination. Specific coil package dimensions to be agreed at time of order placement/enquiry.



2 易切削钢 FREECUTTING STEEL GRADES

下表列出了英国钢铁公司易加工牌号的典型化学分析；可以根据要求定制其他牌号。

The following tables indicate the typical chemical analysis for British Steel's freecutting grades. Other grades can be considered and are available upon request.

含铅易切削钢牌号 Leaded freecutting grades

		典型产品的化学分析 (钢包) Typical supplied chemical analysis (ladle)						
标准 Standard	牌号 Grade	C	Si	Mn	P	S	Pb	N
EN ISO 683-4	11SMnPb30	0.07-0.09	<0.01	1.00-1.05	0.05-0.07	0.28-0.32	0.26-0.29	-
	11SMnPb30 (High Pb + N)	0.07-0.09	<0.01	1.05-1.10	0.05-0.07	0.28-0.32	0.29-0.33	0.009-0.012
	11SMnPb37	0.07-0.09	<0.01	1.20-1.30	0.06-0.08	0.35-0.39	0.28-0.33	0.007-0.012
	36SMnPb14	0.33-0.36	0.15-0.19	1.45-1.55	0.025 max	0.10-0.14	0.20-0.25	-
EN ISO 683-3	C15Pb	0.13-0.15	0.20-0.25	0.40-0.50	0.025 max	0.020-0.030	0.20-0.25	-
EN ISO 683-1	C45Pb	0.44-0.48	0.20-0.25	0.60-0.70	0.020 max	0.020-0.040	0.20-0.25	0.012 max
AISI/SAE	12L14	0.07-0.09	<0.01	1.00-1.05	0.05-0.07	0.28-0.32	0.26-0.29	-

无铅易切削钢牌号 Non-leaded freecutting grades

		典型产品的化学分析 (钢包) Typical supplied chemical analysis (ladle)						
标准 Standard	牌号 Grade	C	Si	Mn	P	S	N	Cr
EN ISO 683-4	11SMn30	0.07-0.09	<0.01	0.98-1.02	0.05-0.07	0.27-0.31	-	-
	11SMn37	0.07-0.09	<0.01	1.20-1.30	0.06-0.08	0.35-0.39	0.007-0.012	-
	38SMn28	0.36-0.38	0.15-0.20	1.30-1.40	0.025 max	0.27-0.30	-	0.07-0.10
	44SMn28	0.42-0.43	0.20-0.25	1.55-1.60	0.025 max	0.27-0.30	-	-
	46S20	0.44-0.47	0.15-0.20	1.00-1.05	0.025 max	0.18-0.22	-	0.12-0.17
AISI/SAE	1144	0.42-0.43	0.20-0.25	1.55-1.60	0.025 max	0.27-0.30	-	-
	1215	0.07-0.09	<0.01	0.98-1.02	0.05-0.07	0.27-0.31	-	-

3 轮胎钢帘线

TYRE

REINFORCEMENT



3 轮胎钢帘线 TYRE REINFORCEMENT STEEL GRADES

用于轮胎增强的钢制品

对于汽车市场，轮胎钢帘线可提高轮胎的强度、形状和耐用性，并提高其性能和使用寿命。用于钢帘线的高强度钢丝可以根据个人客户要求要求进行量身定制：

- 拉伸强度可以通过调整钢丝的微观结构来改变
- 可以定制产品特性，以满足客户首选的除鳞方法要求

对于轮胎钢帘线和胎圈客户，还可以提供：

- 技术专业知识和响应能力
- 非集成的供应链，使客户可以计划他们的工作量并与公司合作开发定制的解决方案

Steel products for tyre reinforcement

For the automotive market, our tyre cord wire rod provides a tyre with strength, shape and durability, as well as improving performance and longevity. We produce high-strength steel for the production of tyre cord that can be tailored to individual customer specifications:

- Tensile strength can be altered by adapting the steel microstructure
- Scale characteristics can be tailored to meet the customers' preferred method of descaling

For tyre cord and tyre bead customers, we offer:

- Technical expertise and responsiveness
- A non-integrated supply chain allowing our customers to plan their workload and collaborate with us to develop bespoke tailored solutions

线材规格 Wire rod dimensions

线材直径 Rod diameter	5.5mm
整卷重量 Coil weight	1,800 - 2,200kg
整卷长度 Coil length	1,350 - 1,700mm
整卷尺寸 Coil dimensions	外径: 最大:1,250mm Outside diameter: 1,250mm max 内径: 最小:850mm Inside diameter: 850mm min

注：
标准轮胎增强钢丝的尺寸公差：标准公差：+/- 0.20mm，椭圆度：最大0.30mm。

Note:
Standard tyre reinforcement wire rod dimensional tolerances: Gauge +/-0.20mm, ovality 0.30mm max

牌号

下表列出了轮胎钢帘线的典型化学分析限值；可按要求定制其他牌号。下表同时显示了典型的拉伸强度和面缩率，但是，它们可以通过优化工艺流程来定制。

Steel grade

The table below indicates the typical chemical analysis limits for our tyre reinforcement grades. Other grades and analysis limits can be considered upon request. Typical tensile strengths and reduction of area are displayed, however these can be tailored through process route optimisation.

牌号 Grade	C	Si	Mn	P	S	N	Cr	抗拉 Tensile (MPa)	断面收缩率 Reduction of area (%)
62C	0.62 - 0.65	0.19 - 0.22	0.48 - 0.53	≤0.011	≤0.011	≤0.006	-	920	≥46
72C	0.71 - 0.75	0.19 - 0.22	0.48 - 0.52	≤0.014	≤0.009	≤0.006	-	1030	≥40
84C	0.81 - 0.84	0.19 - 0.22	0.48 - 0.51	≤0.013	≤0.012	≤0.006	-	1120	≥37
95C+Cr	0.90 - 0.95	0.19 - 0.22	0.33 - 0.37	≤0.014	≤0.009	≤0.006	0.20 - 0.24	1260	≥37

4 汽车弹簧钢

AUTOMOTIVE SPRING STEEL



4 汽车弹簧钢 AUTOMOTIVE SPRING STEEL

碳合金线材，适用于机油回火的汽车用弹簧

悬架弹簧的生产需要超洁净、质量稳定的钢材。在安全关键型应用中使用时，这些弹簧始终保持运动状态。

对于汽车客户，弹簧钢产品具有2个主要优点：可靠性和交货期短。除此之外：

- 进行了严格的测试，以满足客户的严格要求
- 全面的尺寸系列，可满足汽车要求
- 具有专业的技术知识

线材规格 Wire rod dimensions

线材直径 Rod diameter	5.5 - 30.0mm, 0.5mm增量	5.5 - 30.0mm in 0.5mm increments
整卷重量 Coil weight	1,800 - 2,200kg	
整卷长度 Coil length	1,000 - 1,700mm	
整卷尺寸 Coil dimensions	外径: 最大:1,300mm Outside diameter: 1,300mm max 内径: 最小: 800mm Inside diameter: 800mm min	

注：
整卷重量和长度取决于线材直径和牌号的组合；具体线材卷尺寸在下订单/询盘时应进行商定。

Note:
Coil weight and length are dependent on rod diameter and grade combination. Specific coil package dimensions to be agreed at time of order placement/enquiry.

下表列出了汽车弹簧钢的典型化学分析限值

The table below indicates the typical chemical analysis levels for our automotive spring steel grades.

标准 Standard	牌号 Grade	C	Si	Mn	P	S	Cr	V
EN 10089	54SiCr6	0.52 - 0.56	1.40 - 1.50	0.60 - 0.70	< 0.015	< 0.010	0.60 - 0.70	-
	54SiCrV6	0.53 - 0.57	1.35 - 1.45	0.60 - 0.70	< 0.015	< 0.010	0.52 - 0.62	0.10/0.15

注：
可按照技术建议提供各种尺寸。

Note:
Sizes available subject to technical referral



5 轨道卡箍 RAIL CLIP



5 轨道卡箍 RAIL CLIP

用于轨道卡箍的高性能线材

对于铁路行业，专业的技术团队和遍布全球的销售团队可提供产品支持，以满足轨道卡箍应用的严格要求。

38SiCr7 可实现：

- 均匀的微观结构，有利于下游加工
- 尺寸精度和表面质量
- 也可以在退火和/或拉拔状态下提供

High-performance wire rod for rail clip applications

For the rail industry our dedicated technical team and responsive global sales team offer support to meet the exacting requirements of rail clip applications.

Our 38SiCr7 offers:

- Uniform microstructure to facilitate downstream processing
- Dimensional accuracy and surface quality
- Can also be supplied in annealed and/or drawn condition

线材规格 Wire rod dimensions

线材直径 Rod diameter	5.5 – 16mm
整卷重量 Coil weight	800 – 2,200kg
整卷长度 Coil length	最大 Max 1,400mm
整卷尺寸 Coil dimensions	外径：最大:1,300mm Outside diameter: 1,300mm max 内径：最小: 800mm Inside diameter: 800mm min

下表列出了英国钢铁公司生产的用于轨道卡箍的弹簧钢典型化学分析限值。

The table below indicates the typical chemical analysis levels for British Steel's spring steel grades for rail clip applications.

标准 Standard	牌号 Grade	C	Si	Mn	P	S	Cr	V
Wsn 1.5023 Acc. EN 10089	38Si7	0.35-0.42	1.50-1.80	0.50-0.80	Max 0.025	Max 0.025	Max 0.30	Max 0.10

轧制后的特性：

- 材料具有均匀的铁素体/珠光体结构
- 抗拉强度： Rm = 700-850 MPa
- 面缩率： Z = 最小 50%

As-rolled properties:

- Material has a uniform ferrite/pearlite structure
- Tensile Strength: Rm = 700-850 MPa
- Reduction of Area: Z = min 50%

轨道卡箍图片由Pandrol提供

Rail clip image courtesy of Pandrol

6 轴承钢

BEARING STEEL



6 轴承钢 BEARING STEEL GRADES

用于加工成滚珠、滚轴、滚针和轴承的线材

轴承要求清洁、耐疲劳且具有一致性能的线材，以确保可靠的使用寿命。我们所有等级的轴承钢：

- 经严格的生产和测试流程，可确保钢材的洁净度、淬透性、尺寸稳定性、增强的可成型性
- 使用多种炼钢工艺制造，可确保能够满足苛刻应用的要求

Bearing wire rod and wire grades for processing into balls, rollers, needles and axles

Bearings demand clean, fatigue-resistant wire rod and wire with consistent properties to ensure reliable long life. Our bearing grades are:

- Manufactured and tested to ensure steel cleanliness, hardenability, dimensional stability and enhanced formability
- Manufactured using a range of steel making routes to ensure we meet the requirements of demanding applications

线材规格 Wire rod dimensions

线材直径 Rod diameter	5.5 - 30.0mm, 0.5mm递增	5.5 - 30.0mm in 0.5mm increments
整卷重量 Coil weight		1,800kg
整卷长度 Coil length		1,000 - 1,300mm
整卷尺寸 Coil dimensions	外径：最大:1,300mm 内径：最小: 800mm	Outside diameter: 1,300mm max Inside diameter: 800mm min

拉丝尺寸 Drawn wire dimensions

拉丝直径 Wire diameter	1.8 - 29.0mm
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注：
整卷尺寸、重量和长度取决最终尺寸和加工情况，并且可按要求定制。有关更多信息，请参见线材加工中心数据表。

Note:

Coil size, weight and length are dependent on final size and execution and are available on request. See our Wire Processing Centre datasheet for further information.

6 轴承钢 BEARING STEEL GRADES

下表列出了主要牌号轴承钢100Cr6（材料编号1.3505、SAE 52100、JIS SUJ2、DIN EN ISO 683-17、ASTM A295）的化学成分。可以提供其他特定元素的要求，但要达到最低订购量。

The table below indicates the chemical composition for the principal grade for bearing applications 100Cr6 (material number 1.3505, SAE 52100, JIS SUJ2, DIN EN ISO 683-17, ASTM A295). Other specific element requirements can be provided, subject to a minimum order quantity.

100Cr6 轴承钢 100Cr6 grade

典型产品的化学分析（钢包）和拉伸强度（球化退火时）
Typical supplied chemical analysis (ladle) & tensile strength (when spheroidise annealed)

牌号 Grade	C	Si	Mn	P	S*	Al	Cr	Mo	Ti	Ni	Cu	O	UTS (MPa)
100Cr6	0.93 - 1.05	0.15 - 0.35	0.25 - 0.45	<0.025	<0.008	<0.050	1.35 - 1.60	<0.010	<0.0030	<0.25	<0.30	<0.0009	<680

*还可提供重新硫化分析（硫含量为0.015-0.030%）。

*Resulphurised analyses (S range 0.015 - 0.030%) can also be provided.

淬火等级

可提供用于制作轴承的完全淬火钢和半淬火钢。

Hardening grades

In addition to 100Cr6, we also supply through hardening and case hardening steel grades for bearing applications.

完全淬火钢 Through hardening grades

牌号 Grade	材料编号 Material number	C	Si	Mn	Cr	Ni	Mo	O
100CrMn6	1.3520	0.93-1.05	0.40-0.70	1.00-1.20	1.40-1.65	<0.30	<0.10	<15 ppm
100CrMo7	1.3537	0.93-1.05	0.20-0.40	0.25-0.45	1.65-1.95	<0.30	0.15-0.25	<15 ppm

半淬火钢 Case hardening grades

牌号 Grade	材料编号 Material number	C	Si	Mn	Cr	Ni	Mo	O
20NiCrMo7		0.17-0.22	0.20-0.40	0.45-0.65	0.40-0.60	1.60-2.00	0.20-0.30	<15 ppm
17MnCr5		0.15-0.20	0.15-0.40	1.00-1.40	0.40-0.80	0.20-0.50	0.10-0.20	<15 ppm
20NiCrMo2	1.6522	0.17-0.23	0.15-0.30	0.70-0.90	0.40-0.60	0.40-0.70	0.15-0.30	<15 ppm

7 焊接钢

WELDING STEEL



7 焊接钢 WELDING STEEL

用于制作焊条、MIG/MAG（气体保护金属电弧）焊条和埋弧焊丝的线材

Welding wire rod for processing into welding electrodes, MIG / MAG (gas-shielded metal arc) electrodes and submerged arc welding wires

专注于生产中低合金特种焊接材料的线材。

- 可以通过酸洗和机械去氧化皮对钢材进行进一步处理，以获得最佳的表面光洁度
- 可以在退火状态下提供更多牌号，以确保良好的可拉伸性。

We specialise in wire rod for low and medium alloyed special welding consumables.

- Steel can be further processed by both pickling and mechanical descaling for the optimum surface finish
- More alloyed grades can be delivered in the annealed condition to ensure good drawability

线材规格 Wire rod dimensions

线材直径 Rod diameter	5.5 - 10.0mm, 0.5mm增量	5.5 - 10.0mm in 0.5mm increments
整卷重量 Coil weight	1,800 - 2,000kg	
整卷长度 Coil length	1,000 - 1,400mm	
整卷尺寸 Coil dimensions	外径: 最大:1,300mm Outside diameter: 1,300mm max 内径: 最小: 850mm Inside diameter: 850mm min	

注：
可按要求提供其他整卷重量和尺寸。

Note:
Alternative coil weights and dimensions are available on request.

下表列出了代表性焊丝牌号； 可根据要求定制其他牌号。

The table below indicates our representative welding wire grades. Other grades can be considered and are available upon request.

类型 Type	标准 Standard	牌号 Grade	材料编号 Material number
MIG / MAG			
SG 1	EN ISO 14341 - 2Si	10MnSi5	1.5112
SG 2	EN ISO 14341 - 3Si1	11MnSi6	1.5125
SG 3	EN ISO 14341 - 4Si1	10MnSi7	1.5130
焊条 Electrodes			
E	EN ISO 2560	RSD 7	1.0324
埋弧电焊丝 Sub-merged arc welding			
S1	EN ISO 14171 - S1	RRSD 10	1.0351
S2Si	EN ISO 14171 - S2Si	11Mn4Si	1.0492
S3	EN ISO 14171 - S3	12Mn6	1.0496
S2Mo	EN ISO 14171 - S2Mo	11MnMo4 5	1.5425
中低合金*线材 Low and medium alloyed*			
MnSi + Ti		13Mn12	1.5089
CrMo	AWS ER 80S-B2	11CrMo5	1.7339
MnCrMo	AWS ER S-D2	13MnMo	1.5428
NiMnMo	AWS ER 80S-Ni2	11NiMnMo4-5	1.6312
	AWS ER 100S-G	5NiMnMo8	
CrMoSi	AWS ER 90S-B3	9CrMoSi10	

*用于中低合金焊接材料的线材可按30吨以上的定制批次提供。

*Wire rod for low and medium alloyed welding consumables can be supplied in custom made batches of 30 tonnes min.

7 焊接钢 WELDING STEEL

其它合金钢

还可以提供具有下表的最大元素含量限值的合金钢； 请联系我们来讨论你的具体要求。

Additional alloys

We can also offer steels with additional alloys up to the maximum content limits in the table below. Please contact us to discuss your requirements.

	Cr	Ni	Mo	Si	Mn
最高含量 Max w-%	6	4	1	2	2

可按要求添加钛、锆、铜和钒等元素。

Additions in titanium, zirconium, copper and vanadium may be available upon request.

钢包分析中可能存在的最大残留元素限值^{1),2),3)}

Maximum possible residual element limits in ladle analysis^{1),2),3)}

	P	S	Cr	Mo	Ni	V	Ti	Cu	Pb	Sn	As
最高含量 Max w-%	0.012	0.015	0.10	0.04	0.10	0.01	0.002	0.15	0.01	0.008	0.008

	Nb	Ca	Co	Zr	Sb	W	Al	B	Ta	N	O
最高含量 Max w-%	0.005	0.001	0.010	0.005	0.005	0.005	0.010	0.0003	0.015	0.007	0.0025

¹⁾ 可以定制更严格的限值要求

²⁾ 残余元素取决于合金含量，会有差异

³⁾ 可提供产品限值分析报告

¹⁾ Tighter limits possible, to be checked upon request

²⁾ With reservation, depending on alloy content certain residual elements can be different

³⁾ Product analysis limits upon request

8 高强度 HIGH TENSILE



8 高强度 HIGH TENSILE

用于制造桥梁和深水电缆的高强度-重量比线材

高强度桥梁和深水电缆要求线材质量稳定，强度重量比高。高强度线材具有更高的强度-重量比，从而可以减小电缆横截面积，并：

- 减轻了电缆和上部结构的重量（包括电缆带、卡箍、电缆吊架和鞍座）
- 减少了电缆安装和旋拧时间
- 减少施工程序
- 节省了总体项目成本

还可以提供：

- 灵活的轧制程序
- 专业的技术团队和经验丰富的全球销售网络支持
- 支持合作开发项目的技术专家和研发设施

线材规格 Wire rod dimensions

线材直径 Rod diameter	5.5 - 15.0mm, 0.5mm增量	5.5 - 15.0mm in 0.5mm increments
整卷重量 Coil weight	1,800 - 2,200kg	
整卷长度 Coil length	1,350 - 1,700mm	
整卷尺寸 Coil dimensions	外径: 最大: 1,250mm Outside diameter: 1,250mm max 内径: 最小: 850mm Inside diameter: 850mm min	

下表列出了典型的轧制拉伸强度，其他牌号等级可根据要求定制。

The table below indicates typical as-rolled tensiles, other grades can be considered upon request.

钢材牌号 Steel grades

牌号 Grade	典型含碳量% Typical carbon %	主要合金成分 Significant alloys	12mm轧制棒材的典型抗拉强度(N/mm ²) Typical tensile strength in 12mm as-rolled rod (N/mm ²)	典型的面缩率例 Typical reduction of area (%)
M83B	0.8	V	1180	≥30
M85B	0.83	V	1220	≥30
M90B	0.88	V	1260	≥25
X85Cr	0.83	Cr	1200	≥30
X95Cr	0.93	Cr	1220	≥25
M94Si	0.92	Si, Cr	1370	≥25

注：
可提供的尺寸以技术参考为准。

Note:
Sizes available subject to technical referral



High strength-to-weight ratio wire rod for bridge and deepwater cables

High-tensile bridge and deepwater cables require consistent quality wire rod with high strength to weight ratio. The enhanced strength-to-weight ratio of our high tensile wire rod enables cable cross-sections to be reduced and delivers:

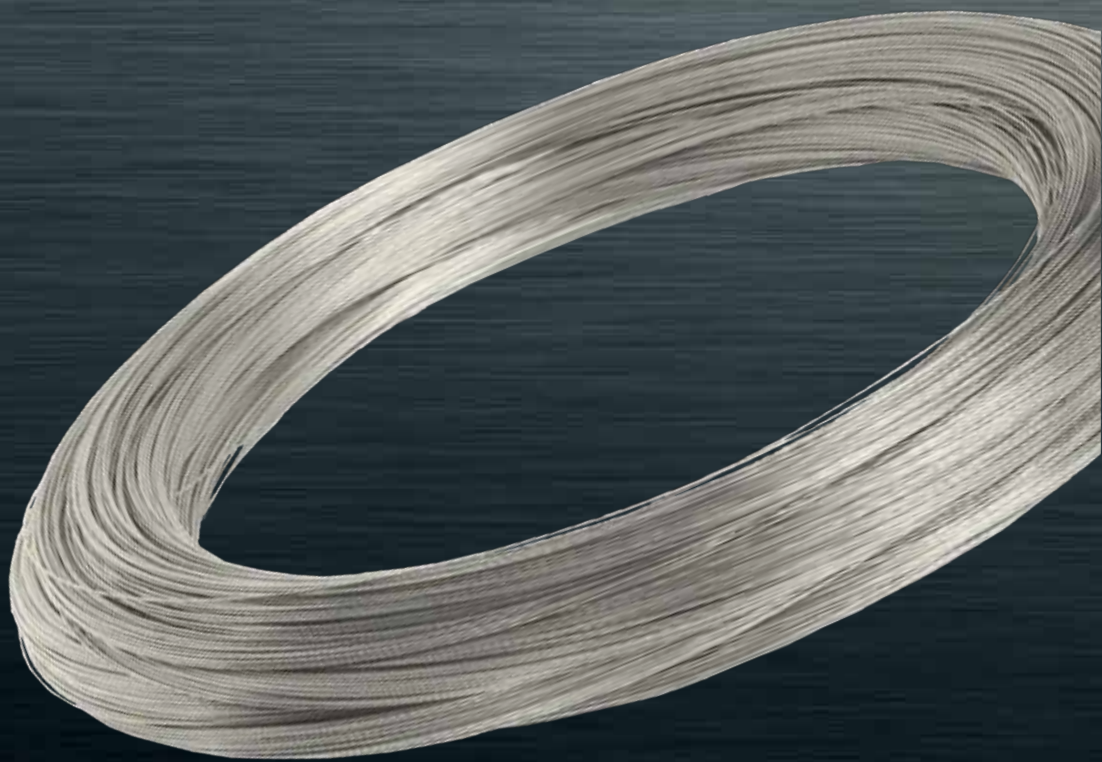
- Reduced cable and superstructure weight (including cable bands, clamps, hanger cables and saddles)
- Reduced cable installation and spinning time
- Reduced construction programme
- Overall project cost savings

We offer:

- Flexible rolling programme
- Support of a dedicated technical team and experienced global sales network
- Technical expertise and R&D facilities to support collaborative development projects

9 线材加工中心

WIRE PROCESSING CENTRE



9 线材加工中心 WIRE PROCESSING CENTRE

通过拉拔、酸洗和退火工艺增强线材和线材产品的性能

阿尔布拉瑟丹(Alblasserdam)工厂为全球汽车、建筑和一般工程行业生产退火和酸洗线材以及拉丝。

退火

为了使线材更易加工，可以提供球化退火、重结晶退火和应力消除退火工艺。退火程序是专门针对不同牌号的线材设计的。

酸洗

在表面质量要求很高的位置，可以用盐酸除去污垢。还可以提供各种涂层以进一步优化工艺，例如用于拉延和轧制工艺的石灰、盐载体、磷酸盐和肥皂，或者用于冷成型和冷挤压工艺的磷酸盐和肥皂或聚合物。

拉拔

对于需要较小直径和/或更小尺寸公差的下游工艺，拉丝厂可生产各种牌号的拉丝。

线材尺寸

下表列出了系列线材的典型规格，包括经过退火和/或酸洗处理的材料。

整卷参数 Coil properties

线材直径 Rod diameter	5.5 - 30.0mm, 0.5mm递增	5.5 - 30.0mm in 0.5mm increments
整卷重量 Coil weight	1,800 - 2,200kg	
整卷长度 Coil length	1,000 - 1,700mm	
整卷尺寸 Coil dimensions	外径: 最大:1,300mm Outside diameter: 1,300mm max 内径: 最小: 800mm Inside diameter: 800mm min	
工程 Tolerance	符合 EN 10108 A/ B的要求 In accordance with EN 10108 A or B	

注:

可以轧制、退火和/或酸洗、涂层的形式交付。整卷重量和长度取决于线材直径和牌号的组合。具体整卷尺寸在下订单/询盘时应进行商定。

Notes:

Can be delivered in as rolled, annealed and/or pickled, coated. Coil weight and length are dependent on rod diameter and grade combination. Specific coil package dimensions to be agreed at time of order placement/enquiry.

Drawing, pickling and annealing to enhance your wire rod and wire products

Our Alblasserdam site produces annealed and pickled wire rod and drawn wire for the global automotive, construction and general engineering industries.

Annealing

To make wire rod more workable, we offer spheroidised annealing, recrystallisation annealing and stress-relief annealing. Our annealing programmes are specifically designed for our different grades.

Pickling

Where surface quality is critical, scale can be removed by hydrochloric acid. We also offer a variety of coatings to further optimise processing e.g. lime, salt carrier, phosphate and soap for drawing and flat-rolling or phosphate and soap or polymer for cold forming and cold extrusion.

Drawing

For downstream processes that require smaller diameters and/or tighter size tolerances, our drawing plant produces drawn wire in a wide variety of grades.

Wire rod dimensions

The table below indicates the typical specifications for our wire rod range, inclusive of material treated via annealing and/or pickling.



9 线材加工中心 WIRE PROCESSING CENTRE

整卷装运 Coil handling

捆扎 Strapping	4 根扎带捆扎 4 band straps
标签 (轧材) Labels / tags (as rolled)	1个带条形码和纯文本的塑料标签和1个带文字的金属标签 1 plastic with barcode & plain text and 1 metal tag with text
标签 (加工材) Labels / tags (treated wire rod)	1个含条形码的塑料标签 (可按要求提供第2个标签) 1 plastic with barcode as standard (second label available on request)

拉丝尺寸 Drawn wire dimensions

直径 Diameter	1.8 - 28.0mm
公差 Tolerance	符合 EN 10278:1999 (h9, h10 或 h11)的要求 In accordance with EN 10278:1999 (h9, h10 or h11 possible)

注:
可按线圈、绕线线圈和星形轮/支架形式提供各种重量和组成的线材, 具体取决于最终使用和尺寸。可以按拉拔或退火 (或其组合)、并涂覆磷酸盐或肥皂的形式提供。

Notes:

Available in coils, spooled coils, and on spiders/carriers in a variety of weights and make up - options are dependent on final execution and size). Can be delivered in as drawn, annealed (or combination), coated with phosphate or soap.

各种加工条件 Treatment conditions

EN	DIN	说明 Description
+U+C	K	拉拔 Drawn
+AC+C	GKZ+K	退火-拉拔 Annealed-drawn
+U+C+AC	K+GKZ	拉拔-退火 Drawn-annealed
+U+C+AC+LC	K+GKZ+K	拉拔-退火-拉拔 Drawn-annealed-drawn
+AC+C+AC+LC	GKZ+K+GKZ+K	退火-拉拔-退火-拉拔 Annealed-drawn-annealed-drawn

10 联系方式

CONTACTS

10 联系方式 CONTACTS

如果您想进一步了解产品范围或想得到帮助，请联系。

此处列出的联系方式在本文发布时是正确的。您所在地最近和最新联系方式，请访问

britishsteel.co.uk/locations。

If you want to find out more about our product range and how we can help you, please get in touch.

The contact details listed here are correct at the time of publication. For the latest details of your nearest location, please visit britishsteel.co.uk/locations.

按产品划分 By product

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