

LIBERTY STEEL UK BUSINESS OVERVIEW.

Summary of LIBERTY Steel UK businesses, products and markets.



LIBERTY

“ FROM BUILDINGS TO BRIDGES... STEEL IS ALL AROUND US.

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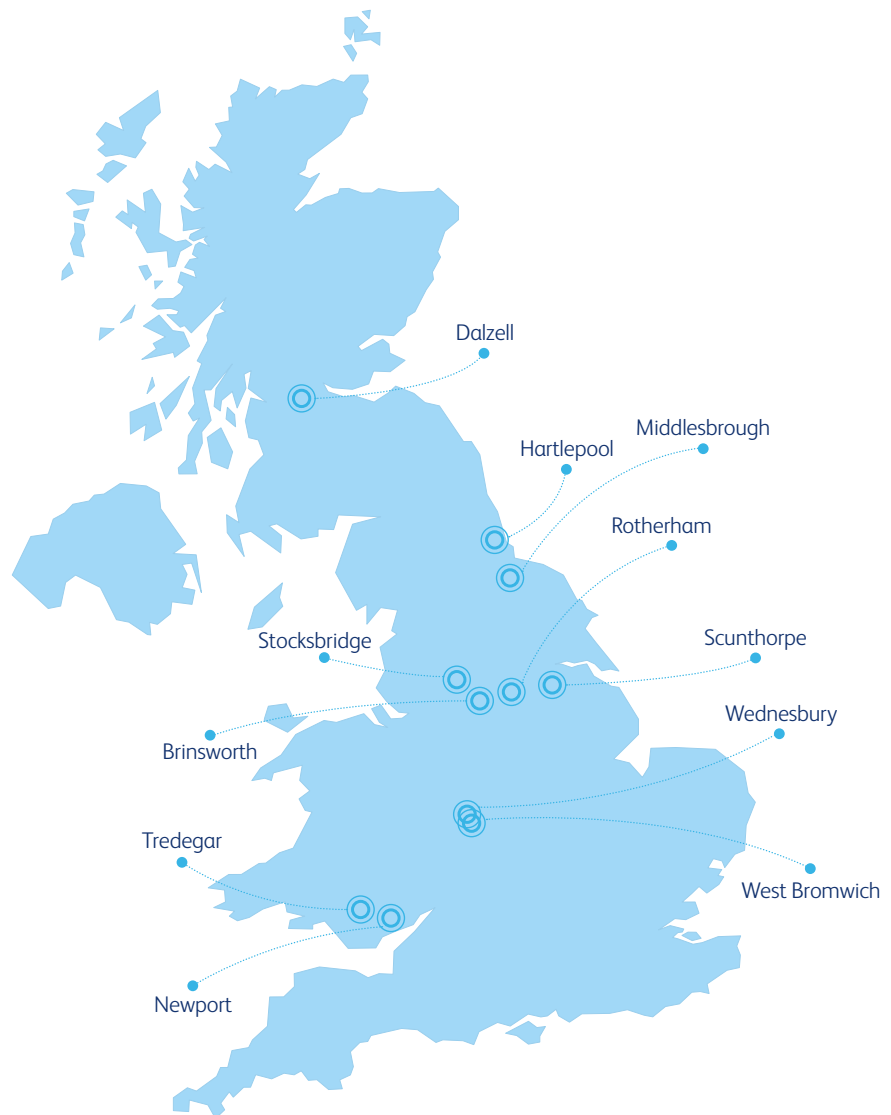
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LIBERTY's United Kingdom business is the third largest steel manufacturer in the country, with a footprint that covers eleven sites across England, Scotland and Wales. It has an annual liquid steel capacity of over 1 million tonnes per annum and a rolling capacity exceeding 2 million tonnes per annum.



LIBERTY Steel UK has a wealth of expertise thanks to our team of metallurgists, steelmakers, engineers and technicians.

Capabilities include electric arc steel making, vacuum induction remelting, mill processing and value added services. The business manufactures and distributes products supplied into the aerospace, construction, automotive, oil and gas and energy industries domestically and overseas to over 60 countries.

ROTHERHAM STEEL & BAR – ALDWARKE CAST PRODUCTS

Rotherham Steel & Bar produce a range of GREENSTEEL products using Electric Arc Furnace technology. They supply into a wide range of markets and applications including Automotive, Construction, Aerospace, Oil & Gas, Power Generation and Bright Conversion sectors.



The integrated supply chain encompasses scrap, waste processing, and steel making through to bar finishing. As well as supplying external markets, Rotherham Steel & Bar also produce feedstock for Stocksbridge, Narrow Strip, Thrybergh, Bright Bar and Merchant Bar.

Product Offering

TYPE	HEIGHT (MM)	WIDTH (MM)	LENGTH (MM)	WEIGHT (T)
Small Bloom	140	140	6000 - 13500	1.22 – 1.98
	180	180	6000 - 13500	2.02 – 3.27

TYPE	HEIGHT (MM)	WIDTH (MM)	LENGTH (MM)	WEIGHT (T)
Square Ingot	638	490	2130	4.8
	653	490	2330	5.4
	722	550	2300	6.6
Ingot (Round-multi fluted or pencil)	619	598	3000	6.14
	722	700	3000	8.4
	860	845	3220	12.9

Grades

- Low and Medium Carbon Free Cutting Steels
- Carbon Manganese Steels
- Boron Treated Steels
- Case Hardening Steels
- Micro Alloy Steels
- Alloy Through Hardening Steels
- Plain Carbon Steels
- Stainless Steels
- Free Cutting Steels



Thrybergh Mill is based on the Rotherham site. The products supplied are hot rolled bar and bar in coil from 14-105mm. The Thrybergh portfolio of products supports the automotive, construction, aerospace, yellow goods and engineering sectors.

In addition to external customers and markets, Thrybergh is a major supplier to the LIBERTY Engineering Bar business. Black bar is turned and drawn, coil is drawn and then processed by the downstream businesses.

Product Offering

SUPPLY	TYPE	SHAPE	METRIC (MM)	IMPERIAL (INCHES)
Black	Bar 4500mm – 14700mm	Round	22 – 105	0.87 – 4.13
		Hexagon	22 - 78	0.87 - 3.07
		Square	22 - 44	0.87 - 1.73
	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

Grades

- Low and medium carbon free-cutting steels
- Carbon manganese steels
- Boron treated steels
- Case Hardening Steels
- Micro alloy steels
- Alloy through hardening steels
- Free cutting steels
- Plain Carbon Steels

Services

- Hire rolling
- Straightening 1:500
- Cutting to length
- Cutting to short forging blanks
- Bundling and labelling to customer requirements
- Crack detection
- Ultrasonic testing



ROTHERHAM STEEL & BAR – REBAR

Rebar is used in all road, rail, highway and bridge construction, sewage systems, airports and stadium projects. Activity is driven by infrastructure spend and demand is recovering faster than other sectors post COVID pandemic.



Product Offering

GRADE	SHAPE	METRIC (MM)	LENGTH (M)
B500C (micro alloyed)	Round	20, 25, 32, 40 and 50	6 – 16 (tol +50 / -0)

Mechanical Properties

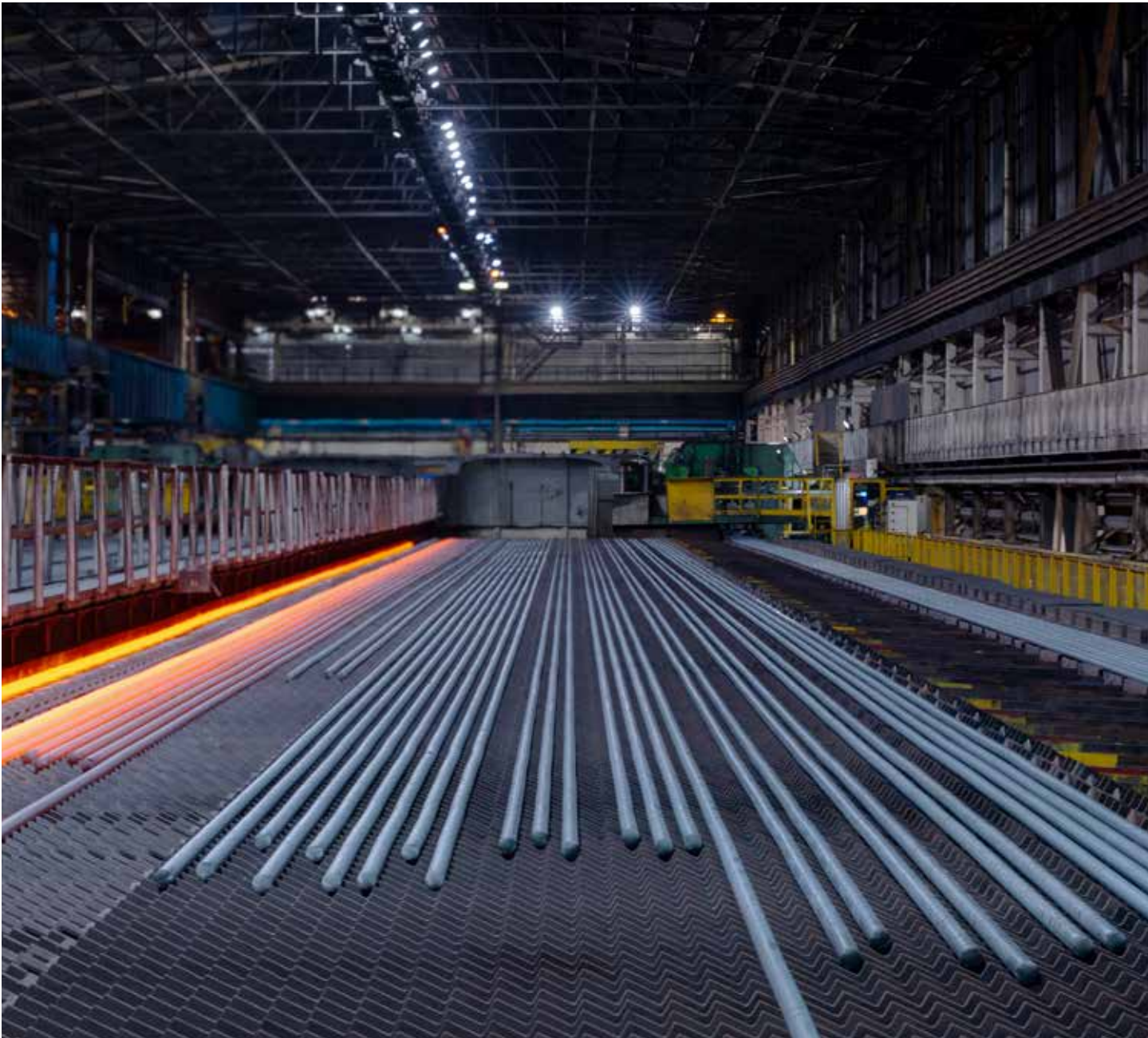
- Yield strength: 500MPa
- Bend / Fatigue / Bond / Welding: BS4449:2005

Ductility

Tensile/yield strength ratio, R_m/R_e $\geq 1.15, < 1.35$
Total elongation at maximum force, A_{gt} 7.5%

Approvals and Accreditations

- CARES Approved
- CARES Sustainability Approved
- BS 4449:2005 + A3:2016
- ISO 14001 (environmental)
- ISO 45001 (health and safety)
- BES 6001 (supply chain sustainability)
- ISO 9001 (quality)
- AS 9100 (quality)
- IATF 16949 (quality)



The UK's largest hot rolled steel manufacture of merchant bars, supplying customers across the UK and Europe with hot rolled steel bar products.

Markets

- Shipbuilding and refurbishment
- Power distribution and generation
- Materials handling and storage
- Bridge building
- Off-shore installations (oil, gas and wind)
- Construction
- On and Off-road
- Perimeter protection and security
- Transport (rail, train and bus)
- Equipment and machinery

Product Offering

- Steel flat, round and square bar
- Steel angles (both equal and unequal)
- Steel convex flats
- Steel beams and channels
- Steel crane rail
- Mild steels
- High yield steels
- Carbon steels
- Boron steels
- Strongbuild 2000
- Low alloy steel grades



LIBERTY MERCHANT BAR - PRODUCT RANGE

Flats

THICKNESS (MM)														
mm	4	5	6	8	10	12	15	20	25	30	35	40	45	50
20	•	•	•	•	•	•								
25	•	•	•	•	•	•								
30	•	•	•	•	•	•	•							
35	•	•	•	•	•	•								
40	•	•	•	•	•	•	•	•	•					
45	•	•	•	•	•	•	•	•	•					
50	•	•	•	•	•	•	•	•	•	•				
55		•	•	•	•	•	•	•	•					
60		•	•	•	•	•	•	•	•	•	•	•		
65		•	•	•	•	•	•	•	•	•	•	•		
70		•	•	•	•	•	•	•	•	•	•	•	•	•
75		•	•	•	•	•	•	•	•	•	•	•	•	•
80		•	•	•	•	•	•	•	•	•	•	•	•	•
90		•	•	•	•	•	•	•	•	•	•	•	•	•
100		•	•	•	•	•	•	•	•	•	•	•	•	•
110		•	•	•	•	•	•	•	•	•	•	•	•	
120		•	•	•	•	•	•	•	•	•	•	•	•	
130		•	•	•	•	•	•	•	•	•				
140		•	•	•	•	•	•	•	•					
150		•	•	•	•	•	•	•	•					
160				•	•	•	•	•						

Squares

MM
12
16
20
25
30

Rounds

MM (DIA)
12
14
15
16
18
19
20
22
24
25
27
30
32
35
38
40
45
49
50

Angles

THICKNESS (MM)									
mm	3	4	5	6	7	8	9	10	12
25x25	•	•	•						
30x30	•	•	•						
40x40	•	•	•	•					
45x45			•	•	•	•			
50x50			•	•	•	•			
60x60			•	•	•	•	•	•	
65x65				•	•	•	•	•	
70x70				•	•	•	•	•	
75x75				•	•	•	•	•	
80x80				•	•	•	•	•	
90x90				•	•	•	•	•	•
100x100				•	•	•	•	•	•

PFCs

MM
76 x 38
100 x 50

IPE

MM
100
100 A
100 AA

Angles up to and including 50 x 50 available in round and square root.

Convex Flats

MM
40 x 12
50 x 12

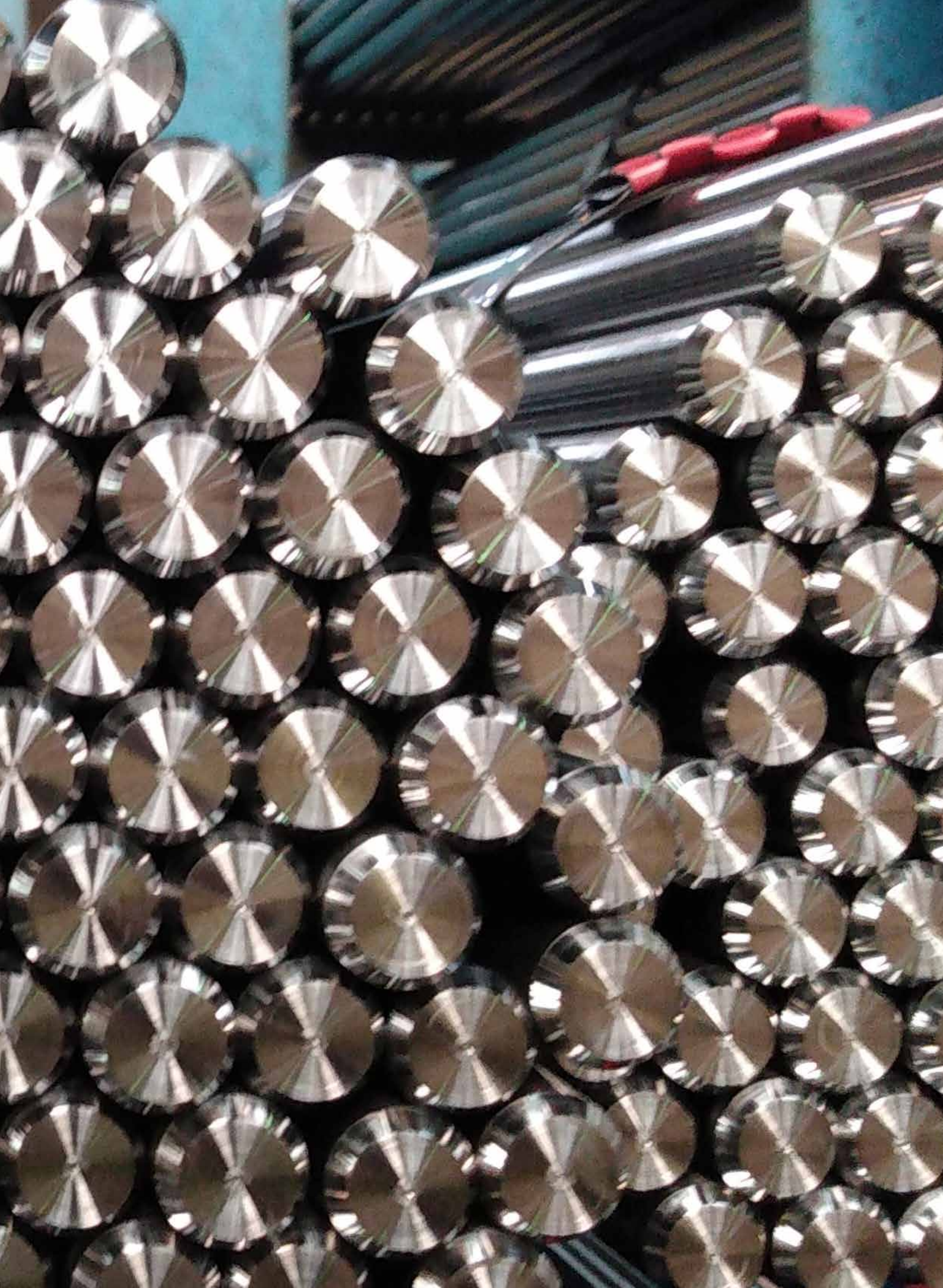
Crane Rails

MM (DIA)
50 x 30
60 x 40

Unequal Angles

THICKNESS (MM)								
mm	5	6	7	8	9	10	11	12
65x50	•	•	•	•				
75x50	•	•	•	•				
80x60		•	•	•				
100x65		•	•	•	•	•	•	•
100x75		•	•	•	•	•	•	•

All of the above products are available in mild steels, high yield steels, carbon steels, boron steels Strongbuild 2000 and low alloy steel grades.



ENGINEERING BAR – BRIGHT BAR PRODUCTS

LIBERTY Engineering Bar is the largest UK manufacturer of Bright Bar. It operates two manufacturing sites at Wednesbury and Rotherham. Wednesbury draws coils, Rotherham draws and turns straight bars. Both businesses supply into Automotive, Yellow Goods, Hydraulics, Aerospace, Oil & Gas, General Engineering and Precision Machining applications.

Product Offering

SUPPLY	TYPE	SHAPE	METRIC (MM)	IMPERIAL (INCHES)	
Bright	Bar	Drawn	Round	8 - 90	0.31 – 3.54
			Hexagon	10 - 70	0.39 - 2.99
		Turned	Round	19 - 165	0.75 - 6.49
			Round Heat Treated	19 - 165	0.75 - 6.49

Grades

- Free cutting steels
- Low and medium carbon free-cutting steels
- Carbon manganese steels
- Case hardening steels
- Micro alloy steels
- Alloy through hardening steels
- Plain carbon steels
- Bearing steels

Services

- 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
- Cutting to length for requirements <3metres
- Special packaging to individual customer requirements
- Turning
- Product protection (dipping, wrapping and boxing)
- Crack detection
- Ultrasonic inspection
- Bright drawing
- A comprehensive range of hirework services are offered

Based in Scotland, LIBERTY Steel Dalzell manufactures Hot Rolled Plate. The business produces heavy steel plate products in various grades.

Markets

- Offshore Oil & Gas
- Renewable Energy (onshore/offshore wind turbines)
- Shipbuilding
- Pressure Vessels
- Construction and Infrastructure
- Line Pipe
- Yellow Goods
- Materials-handling
- Power

Product Offering

TYPE	MAXIMUM
Width	3.95m (trimmed)
Thickness	12.5 - 150mm
Length	4 - 18.3m
Weight	16.4t

Grades

- Structural Steel Plate
- Normalised Structural Steels
- Pressure Vessel Steels
- Shipbuilding Steels
- Weathering Offshore Steels (bridge building)

Finished Conditions

- As rolled
- Normalised / normalised rolled
- Thermo mechanical controlled rolled

Default Tolerances

- EN10163 A Surface
- EN10029-N Flatness
- EN 10029-A Thickness



LIBERTY Steel Newport is based in South Wales and manufactures hot rolled coil and floorplate.



LIBERTY Steel Newport benefits from a great logistics infrastructure, dedicated port on the river Usk and access to the UK rail network. All material is 3.1-certified and structural grades are additionally CE-marked.

Markets

- Construction
- Automotive
- Pipes and Tubes
- Structural Hollow Sections
- Highway
- Yellow Goods
- Materials-handling
- Power

Logistics

- LIBERTY Steel Newport offers a complete multi-mode logistic solution
- 3 tidal berths situated on the Usk estuary adjacent to Newport Docks
- The most easterly port in South Wales is the nearest to the Midlands, and is less than two miles from the M4 and M5 Motorway network
- LIBERTY Steel Newport also operates its fully functional Rail Terminal linking into the UK Rail network to deliver functionality to operate high volume of inbound and outbound cargo

Product Offering

TYPE		MIN	MAX
Sizes	Width (mm)	980	1,525
	Thickness (mm)	1.85	12.5
Coil Weight	Tonnes	11	15
Coil Size	ID: 720mm (+/-50mm)		

Grades

S235	S275	S355
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LIBERTY STEEL NEWPORT – PRODUCT RANGE

WIDTH (MM)	THICKNESS	S275JR	S355JR	S235JR	CHEQUERED FLOORPLATE
1000	1.85	•	•		
1250	1.85	•	•		
1000	2	•	•	•	
1250	2	•	•	•	
1000	3	•	•	•	•
1250	3	•	•	•	•
1500	3	•	•	•	•
1525	3	•	•	•	•
1000	4	•	•	•	•
1250	4	•	•	•	•
1500	4	•	•	•	•
1525	4	•	•	•	•
1000	4.5				•
1250	4.5				•
1500	4.5				•
1000	5	•	•	•	
1250	5	•	•	•	
1500	5	•	•	•	
1525	5	•	•	•	

Capability to produce 980mm width

WIDTH (MM)	THICKNESS	S275JR	S355JR	S235JR	CHEQUERED FLOORPLATE
1000	6	•	•	•	•
1250	6	•	•	•	•
1500	6	•	•	•	•
1525	6	•	•	•	•
1000	8	•	•	•	•
1250	8	•	•	•	•
1500	8	•	•	•	•
1525	8	•	•	•	•
1000	10	•	•	•	•
1250	10	•	•	•	•
1500	10	•	•	•	•
1525	10	•	•	•	•
1000	12	•	•	•	•
1250	12	•	•	•	•
1500	12	•	•	•	•
1525	12	•	•	•	•
1000	12.5	•	•	•	•
1250	12.5	•	•	•	•
1500	12.5	•	•	•	•
1525	12.5	•	•	•	•

Capability to produce 980mm width

Based in South Wales, LIBERTY Steel Tredegar specialises in the production of cold formed structural hollow sections.

Markets

- Construction
- Mining
- Agriculture
- Marine
- Materials handling
- Heating and cooling
- Fabrication
- Street furniture
- Leisure equipment manufacture

Product Offering

PRODUCT	SHAPE	TYPE	MIN	MAX
Hollow Sections	Rectangle	Size (mm)	50 x 25	200 x 100
		Thickness (mm)	2.0	6.3
	Circle	Size (mm)	42.4	190.5
		Thickness (mm)	2.0	6.3
	Square	Size (mm)	40 x 40	150 x 150
		Thickness (mm)	2.0	6.3

Grades

S235	S275	S355
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Finished Conditions

- Cutting
- Post-galvanizing

Default Tolerances

- Cares BS EN ISO 9001:2015
- CE Marking LRQA
- BS EN 10219



LIBERTY Steel Hartlepool is the only manufacturer of Longitudinally Submerged Arc Welded Linepipe in the UK. The Hartlepool facility comprises of the 42" UOE and the 84" three roll bend pipe mills.



The 42" mill features the world's strongest crimp and O-press combination allowing pipe properties suitable for the most demanding applications, including deepwater scenarios. It is one of the few manufacturers capable of forming as low as 16" (406.4mm) and up to 42" (1066.8mm) outside diameter DSAW pipe. All pipe is made to order, as the 42" mill is a project focused operation. The 84" mill serves the carrier pipe and process plant sector and can manufacture pipes up to and including 84" in diameter.

Markets

- LIBERTY Pipes Hartlepool operates in a Global marketplace
- Historically focused on areas of oil & gas exploration activity
- Positioning itself for involvement in the Energy Transition

Key territories served:

- Americas (onshore) (offshore Gulf of Mexico)
- UK Continental Shelf
- Norwegian Continental Shelf
- Middle East & North Africa
- East & West Africa



Applications

- Linepipe
- Casing
- Conductor
- Carrier Pipe
- Process Pipe, Civils, Structural

Additional Services

- Coating: Internal / External
- Global Logistics Solutions
- Bends, Buckle Arrestors
- Package Solutions
- End Protection
- End Machining
- Double Jointing

Approvals:

- ISO 9001, ISO 29001, API Q1
- ISO 3834-2
- ISO 45001
- ISO 14001
- API 5L, EN 1090-2

LIBERTY STEEL HARTLEPOOL – PRODUCT RANGE

42" UOE SAW MILL		DIAMETER (MM)													
		406.4	457.2	508	558.8	609.6	660.4	711.2	762	812.8	863.6	914.4	965.2	1016	1066.8
WALL THICKNESS (MM)	8.74	■	■	■	■	■	■								
	9.5	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	10.3	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	11.1	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	12.7	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	13.5	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	14.3	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	15.9	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	17.5	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	18	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	19.1	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	20.6	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	21	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	22.2	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	23.8	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	24.5	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	25.4	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	26	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	27	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	28.6	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	30.1	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	31	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	31.8	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	33	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	34	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	35	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	36	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	37	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	38	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	39	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	40	■	■	■	■	■	■	■	■	■	■	■	■	■	■
41	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
42	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
43	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
44	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
45	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
46	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
47	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
48	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
49	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
50	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
51	■	■	■	■	■	■	■	■	■	■	■	■	■	■	

- Grades between API 5L X42 and API 5L X80
- Grades between API 5L B and API 5L X70
- Grades between API 5L B and API 5L X65
- Grades between API 5L B and API 5L X60
- Grades between API 5L B and API 5L X56
- Grades between API 5L B and API 5L X80



- Piece weight: 12 metric tonnes maximum. Small quantities >12 metric tonnes subject to mill acceptance
- All pipes cold formed, with subsequent mechanical expansion
- Our service (up to NACE TM0177 & TM0284 Solution A) is available across grades up to X70 & 38.1mm wall thickness
- All sizes available to standards such as API 5L, ISO 3183 & DNV OS-F101
- Maximum length 12.8m; minimum lengths 10.0m. Below 10.0m on request depending on specification

Properties & Performance:

- Thick-walled pipe with exceptional collapse resistance
- Inherent fatigue resistance as a result of excellent concentricity control & end shape tolerances
- Pipe that withstands extremes of temperature
- Cv toughness down to -50 Deg C (dependent on specification)
- DWTT toughness down to -30 Deg C
- High temperature strength derating in accordance with DNVGL-ST-101

HIGH VALUE MANUFACTURING - STOCKSBRIDGE

Focused on offering alloy and stainless steel grades for use in demanding sectors such as aerospace, oil & gas and industrial engineering. Capabilities encompass VIM steelmaking, re-melting facilities via VAR and ESR routes, primary rolling, finishing and testing.



Has dedicated service centres for the aerospace and oil & gas sectors and the ability to produce complex machined components via its Advanced Machining Centre.

Markets

- Defence
- Engine
- Helicopters
- Landing Gear
- Controls
- Aero Structures
- Drilling & Extraction
- Rotor Components
- Bearings
- Power Generation
- Mining
- Rail
- Forging and Stockholding



Product Offering

TYPE	SHAPE	MIN	MAX
Ingot	Round	4.3t	8.2t
Bloom	Round Cornered Square	211mm	457mm
Billet	Round Cornered Square	70mm	211mm
Bar	Round	76mm	381mm

TYPE		MIN (MM)	MAX (MM)
Slab	Width	100	500
	Thickness	50	330

Grades

- VIM products
- Remelted steels
- VAR
- ESR
- Alloy Steels
- Stainless Steels
- Maraging Steels
- Precipitation Hardening Steels
- HyPer Grades
- Martensitic
- Bearing



Operations based at the Brinsworth site in Rotherham, supplying hot-rolled and pickled coil up to 500mm wide.

Europe’s only specialist continuous hot strip mill. Diverse customer base with established supply chains into Europe, China, India, and the US. Finishing processes include slitting, cut-to-length, levelling, and annealing. Toll-rolling of non-ferrous superalloys for variety of end markets.

Target Markets

- Metal/Wood Cutting Bandsaw
- Industrial Knives & Blades
- Textile Needles
- Razor Blades
- Compressor Flapper Valves
- Agricultural Wear Parts
- Electrification Components
- Electrical Heating Components
- Keys
- Bearing Cases
- Cold Rollers
- Razor Blades
- Bandsaw Blades
- Industrial Needles
- Keys
- Agricultural
- Automotive

Product Range

TYPE		MIN	MAX
Mill Edge	Width (mm)	180	500
	Thickness (mm)	1.5	13.5
Sheared Edge	Width (mm)	26	465
	Thickness (mm)	1.5	8
Coil Weight	10.5kg/mm		
Coil Size	ID: 508mm, OD: 1350mm		
Cut lengths	1-6m		
Bundle Weight	Up to 5t		

Grades

- Alloy Steel
- Stainless Steel
- Free-cutting steel
- High Carbon Steel
- Low and Medium Carbon Steel
- Boron
- HSLA and Low Alloys
- Hire-rolling

LIBERTY PERFORMANCE STEELS

LIBERTY Performance Steels is the only precision cold roller and heat treater of steels in the UK. The site carries out annealing (batch and continuous), cold rolling, slitting, edge dressing, polishing, temper straightening, hardening and tempering, and bimetal electron beam and laser welding.



The steels processed are non-standard and range from 80 carbon grades to more complex chromium and nickel alloys.

Markets

- Saw blades : Reciprocating, Oscillating & Hole-Saw
- Food Processing
- Packaging Industry
- Skates
- Tissue Industry
- Metal & Wood Cutting Bandsaw
- DIY Saw Trade
- Medical Scalpel Blades – to Swann Morton who are key supplier to NHS

Product Offering

	MIN	MAX	TOLERANCE			COIL SIZE
			STD	FINE	FLATNESS	
Width (mm)	4.8	410	+/-0.10mm	+/-0.05mm	0.001mm per 1mm of width	Max Coil Size 7kgs/mm
Thickness (mm)	0.15	3.5	+/-2.0% Nominal	+/-1.0% Nominal		

For sizes outside of these ranges please contact us to discuss.

Services

Edge Preparation:

- Sheared Edge
- Square Decornered
- Planed Square
- Planed Round
- Chamfered



LIBERTY Powder Metals started manufacturing in April 2021. They are the only commercial scale producer of inert gas atomised powder metal in the UK.

Customers operating in additive manufacturing and powder metallurgy sectors need these higher quality powders to make components in the highly demanding sectors such as Aerospace, Defence, Energy, Medical and high-end Engineering. LPM holds the AS9100 Aerospace approval.

Liberty Powder Metals is currently making stainless steel, tool steel and nickel powders and sourcing 3rd party titanium and aluminium powders to provide a comprehensive offer to customers.

High integrity powder is a relatively small portion of the powder metal sector, but growing at c. 30% CAGR, with demand growing in all major high value manufacturing regions; USA, Japan, EU and China.

Market Development Strategy

- Building a distribution network with an initial agreement for UK&I with Righton Blackburn
- Deploying a multi-channel approach with distribution, OEMs and additive machine builders
- 25% of the Atomiser workload is committed to R&D activity (fee earning)

Markets

- Additive Manufacturing (AM)
- Near Net Shape Powder Metallurgy
- Hot Isostatic Pressing (PM HIP)

Product Range

Nickel Super-alloys

- INCONEL 718
- INCONEL 625
- HASTELLOY-X

Alloy Steels

- MARAGING 250
- MARAGING 300
- 4140
- 4130

Stainless Steels

- 316L
- 17-4PH
- 15-5PH

Cobalt

- CoCr (f75)

Titanium

- Ti64
- CpTi

Aluminium

- AlSi10Mg
- AlSi7Mg



Processes

Atomisation

- Close-coupled inert gas atomisation producing powder up to 150 μ m
- Atomiser is equipped with an anti-satellite system which enables production of highly spherical powder with very few satellites

Powder Processing

- Flexible powder sieving set-up to provide particle size sizing from 15 μ m-150 μ m suitable for a variety of high value powder applications
- All handling, sieving, blending, sampling and packaging carried out under inert atmospheres to minimise oxygen pick-up

Powder Characterisation

- Powder analysis techniques to provide particle size distribution, Hall/Carney flow, density, and powder chemistry. Intention to test and certify own powders in future

**LIBERTY Speciality Steels -
Rotherham Steel & Bar**

P O Box 50
Aldwarke Lane
Rotherham
S60 1DW
T: +44 1709 371 234

LIBERTY Steel Scunthorpe

PO Box 15
Scunthorpe
DN16 1XL
T: +44 1724 403 001

LIBERTY Steel Dalzell

Dalzell Works
Park Street
Motherwell
ML1 1PU
T: +44 1698 266 100

LIBERTY Steel Newport

Corporation Road
Newport
Gwent
NP19 4XE
T: +44 3330 153 700

LIBERTY Steel Tredegar

Tafarnaubach Industrial Estate
Tafarnaubach
Tredegar
NP22 3AA
T: +44 1495 724 333

LIBERTY Steel Hartlepool

SAW Pipe Mills
Brenda Road
Hartlepool
TS25 2EF
T: +44 3330 153 045

**LIBERTY Speciality Steels -
Headquarters & High Value
Manufacturing**

7 Fox Valley Way
Stocksbridge
Sheffield
S36 2JA
T: +44 114 288 2361

**LIBERTY Speciality Steels -
Advanced Machining Centre**

7 Fox Valley Way
Stocksbridge
Sheffield
S36 2JA
T: +44 114 288 2361

**LIBERTY Speciality Steels -
Brinsworth Narrow Strip**

Sheffield Road
Rotherham
S60 1BN
T: +44 333 032 9032

LIBERTY Speciality Steels

Union Road
The Valley
Bolton
BL2 2HS
T: +44 333 032 9199

**LIBERTY Speciality Steels -
Engineering Bar**

All Saints Road
Wednesbury
WS10 9LL
T: +44 121 568 4400

LIBERTY Performance Steels

Trident Steel Works
Albion Road
West Bromwich
B70 8BH
T: +44 (0) 121 553 3031

LIBERTY Powder Metals

Materials Processing Institute
Eston Road
Middlesbrough, TS6 6US
United Kingdom
T: +44 (0) 333 015 3102



For further information visit libertysteelgroup.com

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