



Products & Services Catalogue

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Stainless Steel Round Bar

We stock a variety of stainless steel bar products in grades 303 (1.4305), 304 (1.4301) and 316 (1.4401). Our close relationships with some of the largest bar producers in the world allows us to meet any quantity requirement.

In addition, we stock a range of 1.4404 produced to NACE and various other grades such as 17-4PH, 440, 431, 310, Duplex and Nickel alloys including Alloy 600, 625 and 718.

Due to growing demand, we offer cut billets (pieces) from 10mm thick. These pieces are produced on-site on a cut-to-order basis.

Sawn Blocks

Manufactured from Stainless Steel Round Bar, it has been praised as a high-quality yet cost-effective alternative to metal plate.

We offer rectangular, square or half round blocks cut from large diameter round bar up to 13" cubed as a substitute for expensive plate from the continent. In the past, they have been used for manifold blocks in the oil and gas industry and have been praised for providing a more internally structurally sound product.



	EN10088-3	B S970 PT1
Austenitic	1.4305	303S31
	1.4307	304S11
	1.4301	304S31
	1.4842	310S31
	1.4404	316S11
	1.4401	316S31
	1.4571	320S31
	1.4541	321S31
Martensitic	1.4006	410S21
	1.4005	416S21
	1.4021	420S29
	1.4028	420S37
	1.4057	431S29
	1.4112	AISI 440B
	1.4125	AISI 440C
Precipitation Hardening Stainless Steel	1.4542	17/4PH -Con A, H900, H1025, HH1150
	-	FV520B
Duplex	1.4462	F51 Duplex UNS S31803
	1.4501	F55 Super Duplex UNS S32760
Nickel Alloys	Alloy 625	
	Alloy 718	

Stainless Steel Flat & Square Bar

We stock a range of stainless steel flat bar products in grades 304 and 316 in slit and edge rolled and hot rolled conditions in standard 4 and 6 metre lengths. Thicker material can be sourced and is normally supplied in a hot rolled condition. Cold drawn products are also stocked in smaller quantities on site.

Products are available in widths from 12mm up to 150mm to suit applications wider and thicker products can be sourced upon request.

Our flat bar is available polished, for more information check out our **Polishing Services**.

Stainless Steel Flats
Grade 304 & 316
Slit and rolled edge 4 metre lengths
Hot rolled 6 metre lengths
Cold drawn 3 metre lengths

Stainless Steel Square Bar
Grade 303, 304 & 316
Hot rolled and cold drawn

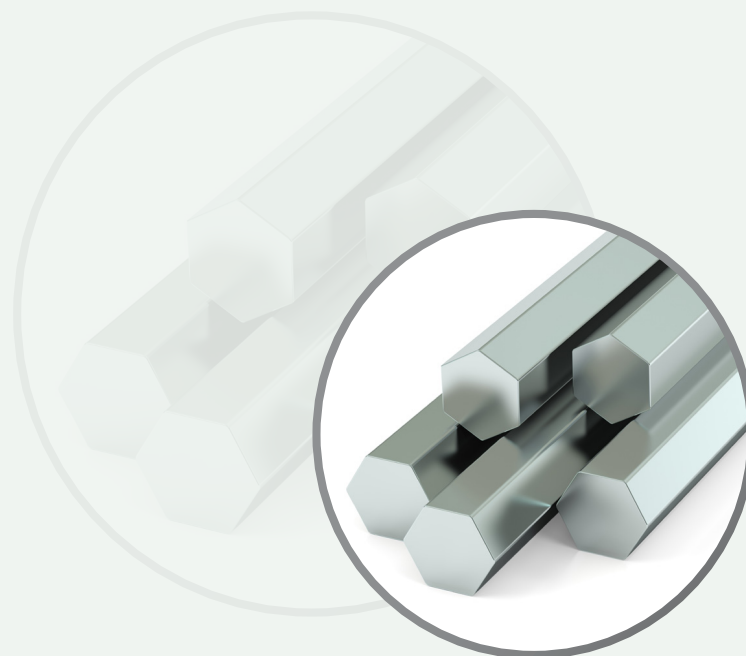
All available as full lengths or cut pieces



Stainless Steel Hexagon

We stock a range of Hexagons in grades 303 (1.4305) and 316/L (1.4404).

Stocked in 3 metre lengths available as full lengths or cut pieces in metric and imperial sizes (A/F) also available in other grades including 431 and 416.

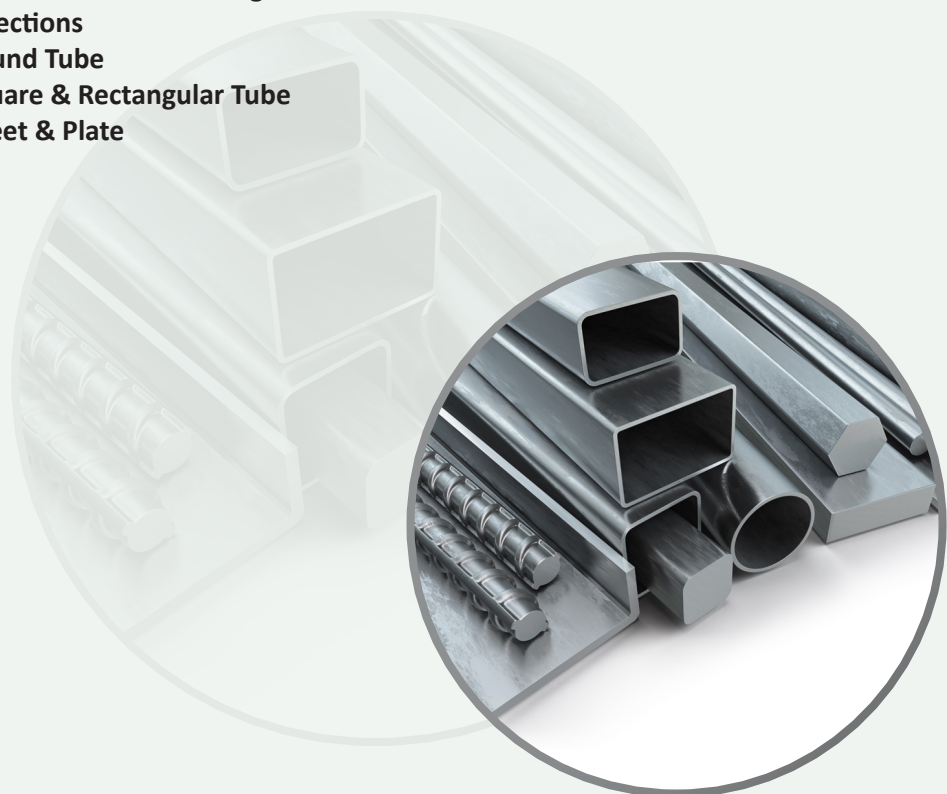


Aluminium Products

Aluminium is an incredibly versatile material with a good strength to weight ratio and a range of alloying elements all offering different properties for a varied selection of applications.

We offer an extensive range of grades in a variety of forms:

- Round and Square Bar
- Metric Flat Bar
- Imperial Flat Bar
- Angle
- Channel
- T-Section
- I-Beam
- Extrusions and Mouldings
- Z-Sections
- Round Tube
- Square & Rectangular Tube
- Sheet & Plate

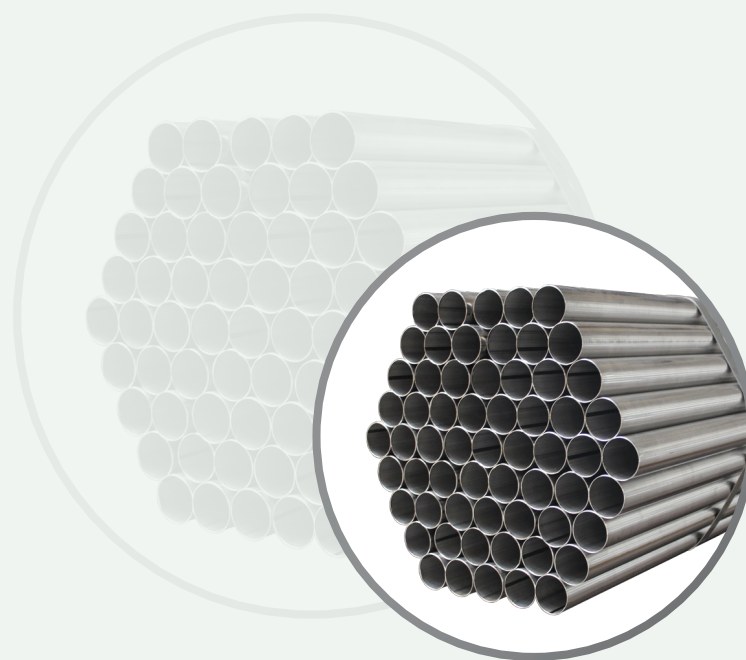


Grade No.	OLD BS	Forms Normally Available
1050 A	1B	Sheet + Strip
2011	FC1	Round Bar, Hexagon Bar
2014 A	H15	Sheet, Plate, Round Bar + Some Extrusion
5083	N8	Sheet, Plate, Bars + Some Extrusions + Tubes
5251	N4	Sheet, Strip + Some Bar
5754	-	Treadplate
6061	H20	Limited Range of Bars + Extrusions
6063	H9	Lightweight Architectural Extrusions, Tubes + Mouldings
6082	H30	Sheet, Plate, Full Range of Bars, Extrusions + Tubes
7075	-	Plate + Some Round Bars

Marine Tube

We offer a comprehensive range of Marine mirror and super mirror polished stainless steel tube in grade 316 (1.4401).

The size range covers tubes from ½" (12.70mm) – 4" (101.6mm) with 1.5mm - 3mm wall thickness.



Exhaust Tube as Welded

As the sole UK Distributor for Marcegaglia's Automotive Division, our customers have exclusive access to one of the UK's most comprehensive selections of stainless steel automotive tube. We supply a wide range of welded exhaust tube in standard lengths of up to 6 metres, with the option for custom lengths available.

Available in Automotive Grades 304 (1.4301), 409 (1.4512), 439 (1.4510) and 441 (1.4509). Our on-site stock encompasses all sizes of outer diameters up to 5" with larger options available upon order.

Products are generally kept in the as-Welded condition however we also hold a complete range of polished material.

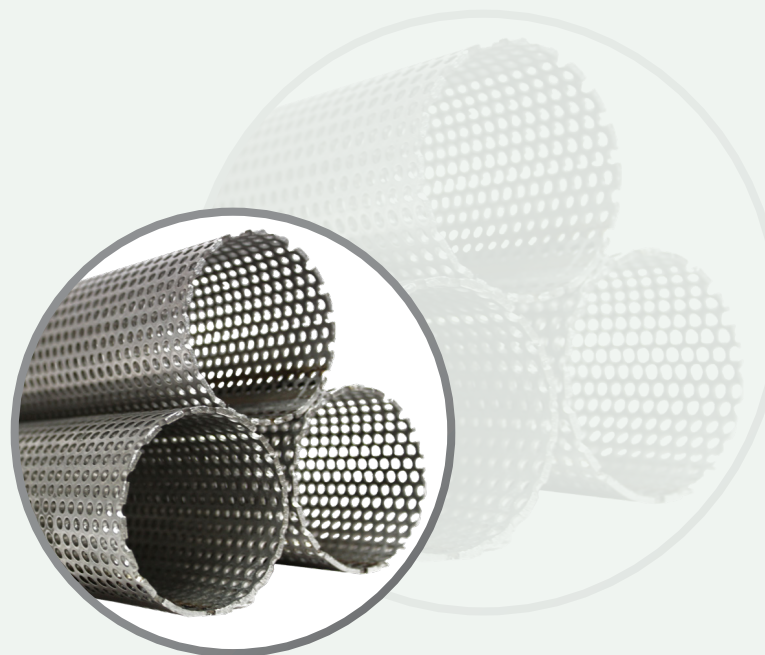
A range of fully annealed material is also available from stock.

Exhaust Tube Perforated

The UKF Group stocks one of the largest ranges of perforated exhaust tube in Europe. Our Perforated Exhaust Tube finds application with automotive exhausts and filtration systems.

We offer standard 6011 pattern in Stainless Steel Grade 304 (1.4301) and Grade 409 (1.4512), from stock, in lengths up to 6 metres. Custom lengths and alternative patterns are available upon request.

Do you require a bespoke pattern? Check out our Perforating Service.



Water Tube

Specially designed for use in sanitary applications, our thin-walled water tubing is manufactured to EN10312:2002 (formally BS 4127) standards.

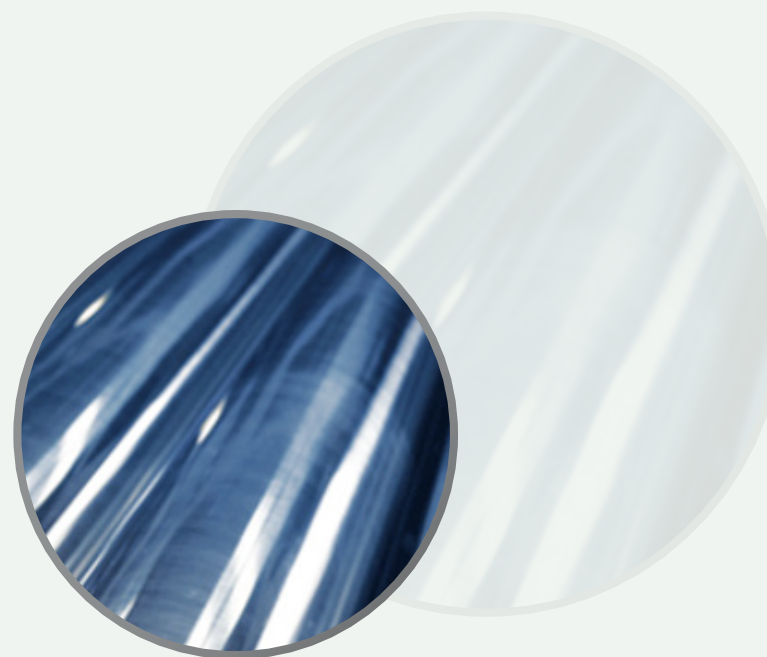
Our range comes longitudinally welded and in both grade 304 (1.4301) and Grade 316 (1.4401) and can be supplied polished or un-polished.



Ornamental Tube

As polished stainless steel has a beautiful shiny texture, strength and durability, it has become the perfect choice to replace more traditional products for architectural type applications. As a result, stainless steel is more widely used not only for interior but also in exterior decoration, furniture, kitchenware, sculpture applications.

We stock a vast range of 304 (1.4301) and 316 (1.4401) material from diameters of 12.7mm Ø to 127mm Ø.



Handrail Tube & Fittings

We hold a complete range of stainless steel handrail tube in all standard diameters. By maintaining strong relationships with our suppliers, we can source additional components or fittings upon request. These components allow for quick installation of even the most complex and attractive stainless steel railings and balustrade systems.

Material is available in both grades 304 (1.4301) and 316 (1.4401), and comes either in un-polished, satin polished or mirror polished finish.

Hygienic Tube

Hygienic tubes are used in environments where cleanliness and cross-contamination prevention are paramount. Our products have been used for food and drink processing, dairies, breweries and within the pharmaceutical industries.

The UKF Group holds a selection of products from $\frac{3}{4}$ " (19.05mm) to 4" (101.60mm) outer diameters in both Grade 304 (1.4301) and Grade 316 (1.4401). Tubes are usually supplied in the annealed and bead rolled condition removing the chances of contamination and in either unpolished or dull polished finishes.



Perforated Sheet

Stainless Steel 304 Perforated Metal possesses many useful qualities including thermal capabilities and corrosion resistance, ease of fabrication and maintenance, making it suitable for many internal and external applications. Stainless Steel 304 Perforated Metal is widely used across many sectors including petro-chemical, pharmaceutical and medical, automotive and food industries.

Applications include: De-greasing baskets, Fascia grilles, Filtration, Flooring Sterilisation trays.

Our Stainless Steel 304 Perforated Metal is available in round, slotted and square holes with either square or staggered pitch and in a comprehensive range of sizes and sheet thicknesses:

Sizes (mm): 2000 x 1000 / 2500 x 1250

Thicknesses (mm): 0.7, 0.9, 1.2 and 1.5

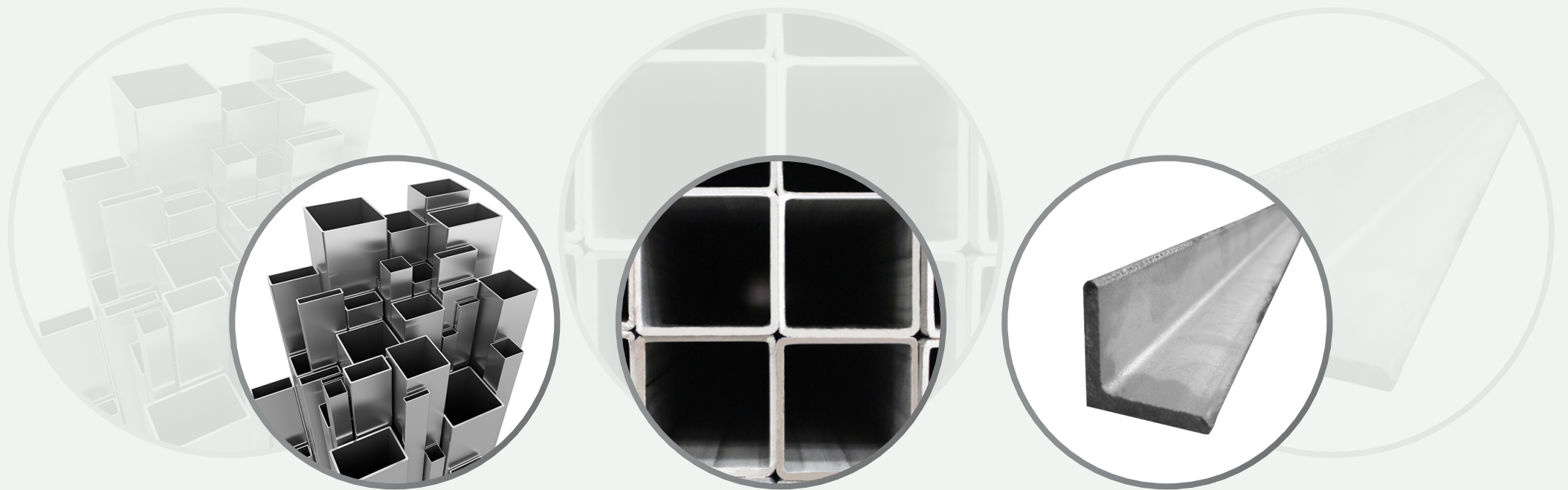
Hole Sizes (mm): 3, 6 and 10 (other sizes available upon request)

Stainless Steel Sections

Normally supplied in standard 6 metre length, Stainless Steel Angle, Square and Rectangular Box Sections are used within a variety of industries including: Automotive Building and construction to Catering Equipment. Available in Grades 304, 316 and 430.

Available in various finishes: mill finish, satin and mirror.

In addition, we can laser cut and deburr the material upon request.



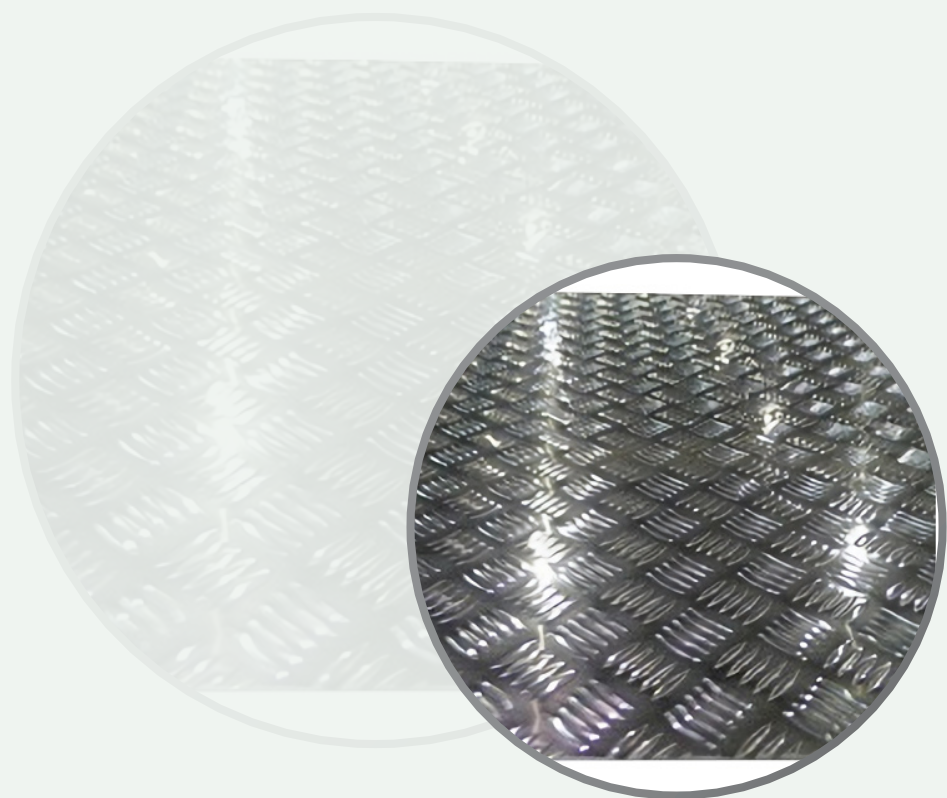
Stainless Steel Sheet & Aluminium Sheet/Plate

We stock a wide range of Stainless Steel and Aluminium sheet and treadplate available for next day delivery. With a close relationship with our mills we can also supply sheet and plate cut to size on short lead times.

Available sheet sizes: 2mtr x 1mr (6'x3'), 2.5mtr x 1.25mtr (8'x4'), 3mtr x 1.5mtr (10' x 5') Thickness 0.5mm-100mm.

We also offer guillotine and laser cutting; square, round or shapes to drawing
Sheet polishing available on request.

Dull Finish 2B, Polished 240 grit, Mirror Polished and Bright Annealed
Stainless steel patterned sheets also available



Aluminium	
1050	1B
5083	N8
5251	N3
6082	HE30
5754	5 Bar Tread Plate

Stainless Steel	
304/L	1.4301/1.4307
316/L	1.4401/1.4404
310	1.4842
430	1.4016

Stainless Steel Fittings & Flanges

Stainless Steel Fasteners & Studding Metal We stock a range of fasteners and studding metal parts in A2 (Grade 304) and A4 (Grade 316) in metric, unified and imperial thread form.

Our products are suitable for application in the water, dairy, brewery, chemical and marine industries.

We offer a wide range of fittings and flanges in Grade 316 (1.4404) - suitable for application in the water, dairy, brewery, chemical and marine industries.

In the past, our products have been used for water boards, dairy and brewing equipment, and marine exhausts.

While we predominantly stock Grade 316, Grade 304 can be made available upon request.

Stock items available for next day delivery

- Elbows
- Flanges slip-on & blind
- Tees welded and pulled
- Barrel nipples
- Concentric reducers
- Reducing bushes
- Sockets



Stainless Steel Fasteners & Studding Metal

We stock a range of fasteners and studding metal parts in A2 (Grade 304) and A4 (Grade 316) in metric, unified and imperial thread form.

Our products are suitable for application in the water, dairy, brewery, chemical and marine industries.



Hygienic Fittings, Valves and Adaptors

Our Hygienic Tube and Fittings come in both Grades 304L & 316L from 1/2"Ø to 4" Ø. Available As Welded & Descaled, Annealed & polished or Bright Annealed, we supply an extensive range to ensure we meet your needs.

From Fitted Bends, Tees, and Reducers to Clamps & Tube Hangers Unions, we supply a variety of adaptors, valves and fittings. We work closely with our trusted suppliers to ensure our material meet the RJT, IDF & DIN Metrics to 300mm OD.

Our valves are available for hygiene and sterilising processes, and suitable for TIG manual or orbital welding.

We stock:

Butterfly valves, T-butterfly valves, Leakage butterfly valves, Vent and exhaust valves
Ball valves, Ball cocks, Non-return valves, Sampling valves, Bends 90° and 45° (DIN 11852 / SMS), Bends 90°, 45° with connecting parts, Bends 180°, T-pieces short and long (DIN 11852 / SMS), Reducing T-pieces short and long, T-pieces with connecting parts, Y-pieces, Double-Y-pieces, Crosses short and long, Crosses short and long reduced execution.



Welded Wire Mesh

A composition of 18% chromium & 8% nickel, Welded Wire Mesh Stainless 304 provides a high corrosion resistance as well as the strength and hygiene properties stainless steel offers and is widely used in food and catering industries, pharmaceutical and health care sectors and construction and automotive industries.

Applications include:

Car grilles

Food preparation

Medical implants

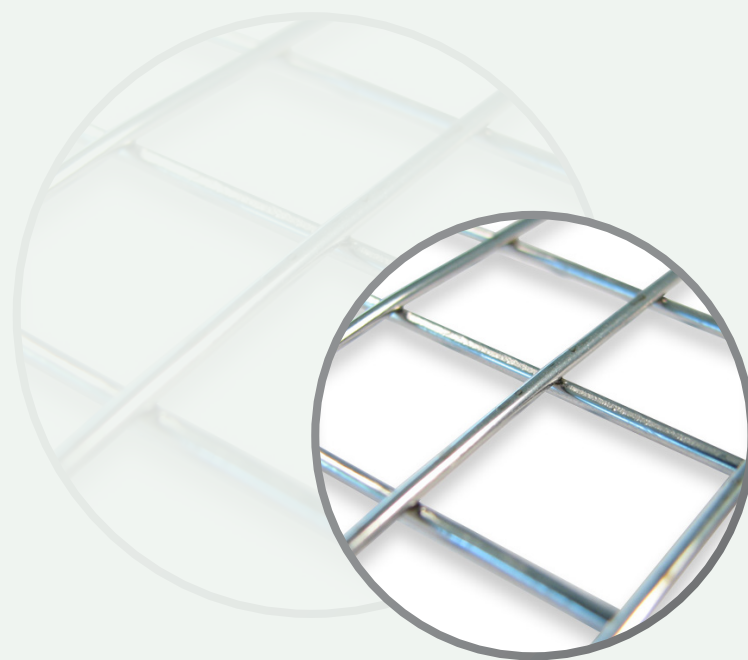
Sterilising baskets

Electronics equipment

Dimensions (mm): 2440 x 1220

Mesh Size (mm): 12, 25 & 50

Thickness (mm): 2.5 & 3.0



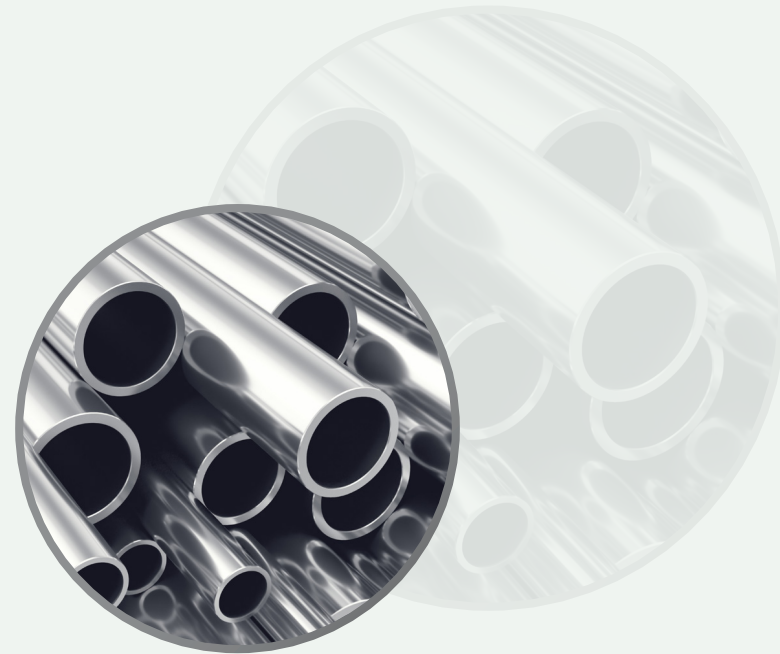
Polishing



To complement our additional services, we offer a complete in-house polishing service.

Our purpose built multi-head polishing machine allows us to provide the complete range of finishes, from a dull 180 grit to a super mirror 600 grit. This lets you choose the exact finish you desire every time without the worry of stock availability.

The polishing service can accommodate any length of tube or round bar up to 6 metres in length.



Cutting



Our specialist-built cutting shop is fully equipped to suit your needs. In addition to our laser cutting facilities, we have a bank of fully automatic and semi-automatic cutting machines ready to process materials up to 3,000mm in length. With the capability to hold tight tolerances ($\pm 0.20\text{mm}$) on diameters ranging from 6mm - 153mm, our cutting services are the cost-effective option for high volume repetitive cut orders.

Whether you choose the built-in deburring and washing options or the stand alone alternatives available alongside the cutting service, your components will be completed to a high standard of finish.

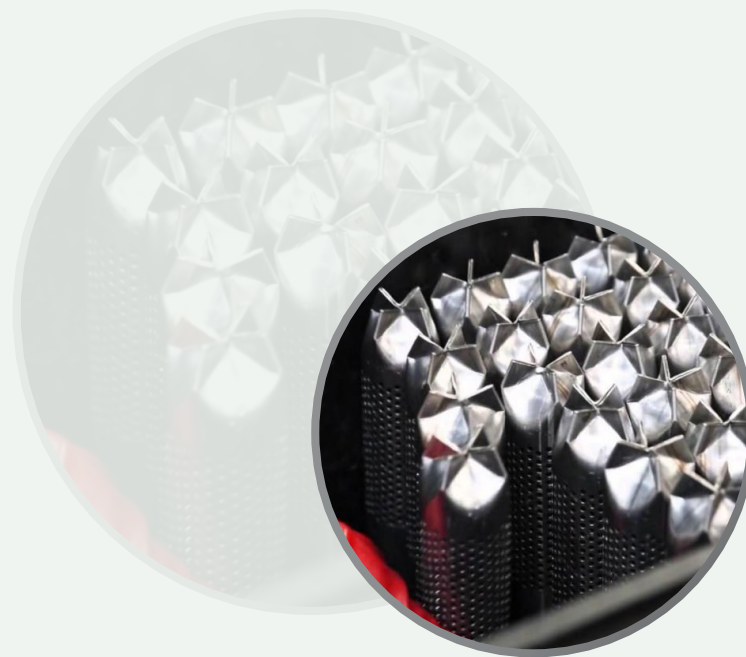
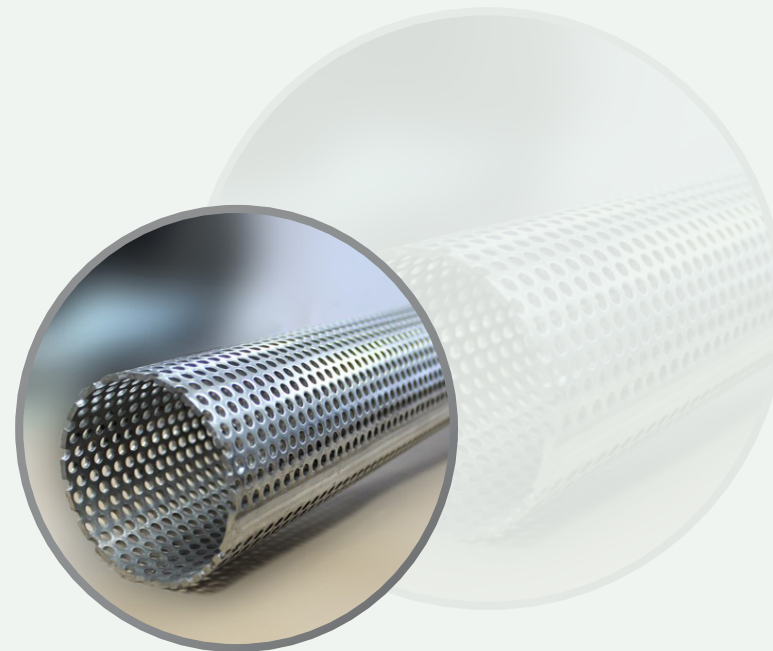


Perforating

Traditionally, perforated tube is manufactured through a lengthy operation starting with flat strip metal that goes through four stages of processing before completion. This is a time-consuming and costly procedure with chances for complications throughout the process.

We've innovated the way perforated tube is processed by perforating pre-formed tube in one operation. This saves you time, money and hassle as it eliminates the long process and any production issues that can occur, while providing a visually enhanced product.

Our five perforating machines can perforate stainless steel, titanium and aluminium tubes from 38mm to 101.60mm, in lengths up to 750mm long. The specialist tool design allows tube perforation in various patterns that can be tailored to produce bespoke and unique patterns and shapes.



Manipulation

We provide our customers with the opportunity to get their materials processed before they even leave the warehouse – providing a leaner and more cost-effective manufacturing process.

With large quantities of material stored on site, you'll benefit from shorter lead times and better material availability compared to third party subcontractors.

Thanks to recent investments, our manipulation service operates across two sites, equipped with several single and multi-stack benders and end-forming machines. Through these sites, we provide CNC and Press tube bending, end-forming and cruxiforming - providing the Group the capability to process and deliver orders faster than ever before.

Our manipulation services are currently being employed within the automotive, domestic appliance and filtration industries.

Laser Cutting

Our state-of-the-art fibre laser provides you an unprecedented level of freedom in design.

Capable of processing tube and box material in varying aluminium, stainless steel and titanium grades and thicknesses. Our laser service provides you with a wealth of new options to consider.

As an All-In-One Solution, our laser can do more than just cut material. The laser can implement multiple functions in a single operation, including: cutting, drilling, notching and etching.

What once would have taken hours and multiple operations and personnel, now only takes seconds with the help of our friendly Laser Operators, Adrian and Martin.

Opposed to traditional cutting methods, laser machines do not require contact upon cutting, -minimising contamination and unwanted marking to the material. When paired with the internal suction probe (more commonly known as “the spoon”), we can produce a final product to a higher standard of finish both in terms of cleanliness and aesthetically.

Laser cutting is perfect for rapid-prototyping, multi-function designs, and is a popular service within the food processing and medical industries.



Lisburn
Units 1-2 Rosevale Industrial Estate
171 Moira Road
Lisburn
Co. Antrim
BT28 1RW
N. Ireland
Tel: 02892 666300

Dublin
Unit 1a The Ringwood Centre
Damastown Close
Damastown Industrial Park
Dublin 15
D15 RX7A
Tel: 00353 18115262

info@stainless-metals.com | www.stainless-metals.com