



Supplying Excellence

A Century of Precious
Metals Expertise

Welcome to Cookson Industrial, with over 100 years of experience, we are the UK's leading manufacturer, refiner and processor of precious metals products to a wide variety of industries. We specialise in high-quality alloys and production capabilities, utilising cutting-edge technology and industry expertise. As well as being the UK's largest producer of precious metal products our services also include powder production, analytical expertise, custom application development, additive manufacturing, laser cutting, metal recovery, alongside traditional manufacturing methods.

Committed to innovation and quality, we cater to various industries, from automotive to aerospace, to medical, dental and electronics. At Cookson Industrial, we blend tradition with technology, offering sustainable, precision-driven solutions for all your precious metal needs. Join us in exploring the future of the precious metals industry.



Our vast range of in house productions capabilities include:

Semi Finished Products:

Cookson Industrial specialises in the manufacture of semi-finished precious metal products including wire and rods.

These high-quality products can be manufactured in the form of high-purity metals or precious metal alloys, including platinum, gold, silver and palladium.

Additive Manufacturing:

We provide a range of services for rapid prototyping, production-ready components, and complex shapes in a range of precious metal alloys. With 5 SLM machines at our disposal alongside a CAD team with years of industry knowledge we are able to deliver a unique end to end solution.

Precious Metal Laser Cutting:

Offers precise laser cutting services for intricate designs and components, suitable for industries like jewellery, watchmaking, medical devices, and aerospace.

3D Scanning Service:

Utilising optical technology, we scan physical objects and convert them into precise 3D CAD models, perfect for situations where original CAD data is missing or outdated.

Refining Industrial Precious Metal Scrap:

Specialises in refining various types of precious metal scrap, ensuring maximum recovery and purity.

Atomised Precious Metal Powders:

At the heart of our advanced materials production is Gas Atomisation, a premier process for creating high-quality, spherical metal powders. Ideal for additive manufacturing and metal injection molding, this technique is renowned for producing powders with exceptional characteristics.

Why choose Cookson Industrial?



360 Application Development

Cookson Industrial provides comprehensive solutions across various industries, including automotive and aerospace, focusing on the entire material development lifecycle. Our expertise spans from initial material selection and development to in-depth analysis and custom design. With a holistic approach to material science, we excel in creating tailored solutions for diverse applications, ensuring our clients receive the most efficient and effective results for their specific needs.



Materials

Our diverse portfolio includes a wide variety of precious metal products, ranging from gold and silver to platinum and palladium, tailored to suit the unique needs of various applications.



Expertise

At Cookson Industrial, our skilled team of metallurgists and engineers possess extensive knowledge in handling precious metals, ensuring that every project is approached with exceptional care and precision.



Process Optimisation

We are dedicated to continual improvement in all our processes, striving for the highest standards of quality and efficiency in our services.



Cost-Effectiveness

Committed to providing value, we offer competitive pricing and adaptable project management to meet your financial and scheduling requirements.

Contact details

For more information on our products and services please contact:

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Product Overview

Precious metal semi-finished products and contact materials

			Gold alloy	Silver alloy	Pt/Pd alloy
Sheet + strips	Thickness	[mm]	0.025 - 4.1	0.025 - 4.1	0.025 - 4.00
	Width-sheets	[mm]	3.0 - 100.00	3.0 - 100.00	3.0 - 100.00
	Width-strips	[mm]	3.00 - 25.00	3.00 - 25.00	3.00 - 100.00
	Length	[mm]	A. A* / o.r.*	A. A* / o.r.*	A. A* / o.r.*
Wires	Round	[mm]	0.10 - 8.00	0.10 - 8.00	0.25 - 6.00
	Rolled section	[mm]	0.60 - 16.00	0.60 - 16.00	2.30 - 6.00
	Square	[mm]	0.50 - 8.00	0.50 - 8.00	2.00 - 6.00
	Special Profiles		A. A* / o.r.*	A. A* / o.r.*	A. A* / o.r.*
Rods + bars	Round	[mm]	0.25 - 30.00	0.25 - 30.00	0.25 - 5.00
	Square	[mm]	1.00 - 8.00	1.00 - 8.00	2.00 - 6.00
	Special profiles		A. A* / o.r.*	A. A* / o.r.*	A. A* / o.r.*
Turned and milled parts			A. A* / o.r.*	A. A* / o.r.*	A. A* / o.r.*
Tubes	Round + shaped	[mm]	A/ext. - Ø max 42.00	A/ext. - Ø max 56.00	A/ext. - Ø max 33.00
			A/ext. - Ø min 0.64	A/ext. - Ø min 0.64	A/ext. - Ø min 1.00
			Wand / wall max 6.50	Wand / wall max 6.50	Wand / wall max 3.00
			Wand / wall min 0.20	Wand / wall min 0.20	Wand / wall min 0.30
Precious metal ring blanks			A. A* / o.r.*	A. A* / o.r.*	
Precious metal casting		[mm]	Casting / stamping	Casting / stamping	N/A
Anodes	Thickness	[mm]	1.00 - 7.00	1.00 - 15.00	
	Width	[mm]	50.00 - 200.00	50.00 - 400.00	max. 10kg / item
	Drilling		A. A* / o.r.*	A. A* / o.r.*	
	Rod anodes	[mm]		Ø 11.00	
	Anode sections	[mm]		Ø 11.00 x 10.00	
	Bar anodes	[mm]		Ø 11.00 x 200.00	
	Dogbone Anodes	[mm]	76mm wide / 15mm edge bead / 10mm web thickness		
Targets + spluttering materials	Diameter	[mm]	Ø 25.00 and / or 57.00	Ø 25.00 and / or 57.00	Ø 25.00 and / or 57.00
	Thickness	[mm]	0.10 - 1.00	0.10 - 1.00	0.10 - 1.00
Continuous casting material	Wires	[mm]	Ø 4.00 - 7.00	Ø 4.00 - 7.00	
	Rods	[mm]	Ø 18.00 - 42.00	Ø 18.00 - 42.00	
	Sheets				
	~Thickness	[mm]	10.00 - 15.00	10.00 - 15.00	
	~Width	[mm]	100.00 - 110.00	100.00 - 110.00	
	Strip				
	~Thickness	[mm]	3.00	3.00	
	~Width	[mm]	30.00 - 100.00 (profile)	30.00 - 100.00 (profile)	
	Tubes				
	~OD Ø	[mm]	33.00-42.00	33.00-42.00	
~ID Ø	[mm]	26.00-33.00	26.00-33.00		

The table gives minimum and maximum dimensions for the respective alloys. The relation between outside diameter and wall thickness of tubes and between thickness and width of sheets and strips is determined on an individual basis. Further shapes and sizes available on request.

*On request