



KARAS
PLATING

WHAT KARAS PLATING CAN DO FOR YOU

For more than seven decades, we have been providing companies across the UK with quality plating solutions. We work with an extensive range of metals to deliver the perfect finish for all our clients.

ANODISING

Anodising applies a thin layer of anodic film over an aluminium substrate. This film is made up of aluminium oxide, creating a tough, durable, and waterproof film on the metal's surface. This film can be formed in a variety of colours, making it as aesthetically pleasing as it is durable.

BRIGHT TIN PLATING

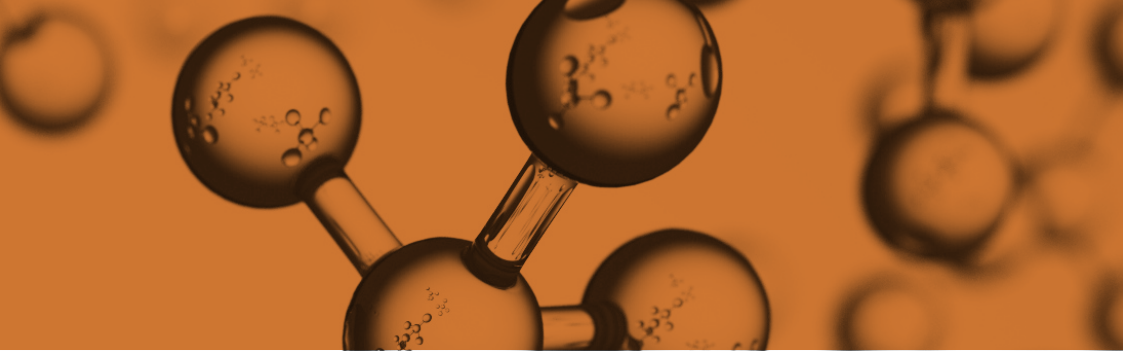
Bright tin plating is a versatile process that can be applied to most metal substrates. It results in a highly conductive and corrosion-resistant finish. This makes it a useful application for many industries.

COPPER PLATING

Despite being a complex process to perform, copper plating is one of our most popular plating techniques. It's not hard to see why. The final result is a smooth, clean, and aesthetically-pleasing finish. This can then be further polished or worked, following the copper plating process.

DULL TIN PLATING

Dull tin plating shares many of the properties of bright tin plating. This makes it a versatile finish with good anti-corrosion and conductive properties. The dull tin finish results in fewer instances of whiskering, making it a popular choice in the electronics industry.



ELECTROLESS NICKEL PLATING

Electroless nickel plating (or ENP) is popular among clients requiring precision components with a corrosion-resistant finish. This method uses chemical reducing agents rather than an electrical current to deposit the nickel onto the substrate. This produces a uniform layer of nickel, even on the most complex components.

GOLD PLATING

Gold plating is, of course, popular in the jewellery trade, but is even more essential to the electronics industry. Highly conductive and resistant to both heat and corrosion, gold plating is one of our most sought-after plating solutions.

IRIDITE NCP

Iriditing promotes a chemical reaction in our plating vat to create a protective surface coating over a range of aluminium alloys. It is resistant to rust and heat, making it the perfect finish for engine parts and heat sink components.

PHOSPHATE COATINGS

We apply both manganese and zinc phosphate coatings. A process is used exclusively on iron and steel derivatives, manganese phosphate coating produces a hard-wearing, crystalline finish that is extremely friction-resistant. Zinc phosphate coatings provide great corrosion resistance and lubricity, as well as being an effective paint primer.

SILVER PLATING

Silver plating is popular in the electrical, electronic, and power generation sectors for its excellent conductivity and heat-resistance. We use 99.9% pure silver for components that are likely to experience high levels of electricity or heat, ensuring exceptional performance.

ZINC-NICKEL PLATING

Zinc-nickel plating is popular in the automotive and aerospace industries, among others. It is a tough and durable finish for any metal, being highly-resistant to both high temperatures and corrosion.

ZINC PLATING AND COLOUR PASSIVATES

Zinc plating is an environmentally-safe alternative to cadmium plating. It leaves a thin deposit of zinc on your substrate, which results in a bright metallic finish. Zinc is a highly corrosion-resistant metal that serves as sacrificial layer for the metal underneath.

OTHER SERVICES AND SOLUTIONS

This is just a sample of the plating solutions we provide at our Leigh facility. Other processes, such as stainless passivation, are also available. We also offer our clients a range of blasting and cleaning processes for preparing their substrate. These include shot blasting, tumble blasting, hand blasting, ultrasonic cleaning, de-greasing, and more.



**PLATING
SINCE
1950**

OUR FOUR CORNERSTONES

Karas Plating is committed to delivering the very best in both workmanship and customer service. Over the decades we have been trading, we have developed a working philosophy that ensures quality and value for each of our clients.

We call this philosophy our Four Cornerstones.

- get it right first time
- get the job done quickly
- rapid response to enquiries
- deliver complex and difficult jobs

Combined, these Four Cornerstones ensure that we meet our commitment to quality and service, every time.

SECTORS

Electroplating and metal finishing plays an important role in almost every industry sector in the UK. In the 70+ years Karas Plating has been in business, we have provided essential plating techniques for virtually all of them.

We work alongside industry leaders to continually refine our plating processes so that they meet the high standards expecting across each sector. With our decades of experience in our own industry, no company is better placed to meet the specific requirements of each client than Karas Plating.

AUTOMOTIVE INDUSTRY

The automotive industry is all about maximising efficiency and the right choice of plated components allows them to do that. They employ gold-plated micro-components in their ECUs, nickel-plated, corrosion-resistant engine parts, and metal-plated plastic components for manufacturing lightweight bodywork.

ELECTRICAL INDUSTRY

For the electrical industry, the key concerns are precision and conductivity. Often, our clients need to forgo one of these to benefit from the other. This is where our expertise comes into play. Our plating specialists carefully balance the pros and cons of each technique to deliver plated electronic components that meet our clients' exact specifications.

POWER GENERATION INDUSTRY

Electroplating is absolutely essential to the power generation sector. From traditional power sources like electrical grids and natural gas to renewable sources like wind turbines and solar panels, the components undergo tremendous pressure. They require plating techniques that deliver friction- and wear-resistant parts, capable of withstanding the strain.



MEDICAL INDUSTRY

We provide precision plated parts for clients across the medical industry. From sterile surgical instruments, to essential equipment components, accuracy is an all-important part of the medical plating process. A key technique for this sector is gold-plating, which is used internally for a range of medical implants.

PETROCHEMICAL INDUSTRY

Like the power generation industry, components supplied to the petrochemical centre must be strong enough to withstand incredible pressure. This include everything from North Sea oil rigs, to petroleum processing centres, to the pipes that transport raw and finished materials. All plated components need to be resistant to heat, friction, and corrosion, whilst still being able to function effectively.

DEFENCE INDUSTRY

The British defence industry demands quality in all of its component parts – quality that we have proven to provide here at Karas Plating. Precision and accuracy are of paramount importance and failure to meet these standards can spell disaster. Military components are also expected to be used under the harshest environmental conditions and must be resistant to heat, corrosion, wear, and more.

QUALITY ACCREDITATIONS

ABOUT KARAS PLATING

Karas Plating has been in business for over 70 years. From our exclusive plating facility in Leigh, Greater Manchester, we supply precision plating solutions for businesses across the UK. We have our own team of qualified and experienced plating technicians producing plated components of the highest possible quality for our clients throughout the country.



ALCUMUS ISOQAR

Alcumus ISOQAR is the leading provider of UKAS-accredited certification. They specialise in management system frameworks that allow companies to minimise risk, deliver change, and drive improvement. In the years we have been trading, we have earned several ISO certifications from Alcumus ISOQAR, demonstrating our commitment to continual improvement. These include: ISO 9001: 2015 (Quality), ISO 14001: 2015 (Environment) and ISO 45001: 2018 (Health & Safety)



MADE IN BRITAIN

The Made in Britain organisation brings together all sectors of the British manufacturing community. Its aim is to promote the high-quality goods and products produced in Great Britain. Karas Plating has been part of the UK's plating industry since 1950 and we are proud to be a part of this exciting initiative.



Environment
Agency

ENVIRONMENT AGENCY

Committed as we are to limiting the environmental impact of our plating process, we are registered with the Environment Agency, who keep a close eye on our disposal methods among other things. We have a permit from the Agency that covers our surface treating processes as well as our disposal of hazardous waste materials. We are obliged to keep within strict operational guidelines in order to meet our environmental responsibilities.



SURFACE ENGINEERING ASSOCIATION (SEA)

The SEA is a leading trade body for the plating industry, acting as its members' voice when it comes to legislation and governmental guidelines that affect the sector. Their primary concern is that its members are able to produce and compete successfully in a competitive global plating market. We are proud to be members of this association, one that mirrors our own dedication to quality production.

A large, semi-transparent graphic of a molecular structure is positioned on the left side of the page. It consists of several dark spheres of varying sizes connected by thin, light-colored rods, set against a background of blurred, larger spheres.

GET IN TOUCH

Over the last 70+ years, we have established ourselves as a name to be relied upon in the plating industry.

We look forward to speaking to you.

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