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ADVANCED CHEMICAL ETCHING

a process of innovation



Decorative Etching

Advanced Chemical Etching (ACE) supplies Decorative Etched parts into the Jewellery, Giftware and Silverware industries. Here at ACE we work closely with designers to get their concept ideas to the market place very quickly.

We are well placed to produce the exceptional quality and fast delivery that the Decorative Etching users expect. With seasonal trends it is paramount that the items arrive to our customers on time and of the highest quality, we are used to producing high quality etched parts to tight deadlines.

We are able to cope with one offs to thousands off, each unique item however large or small is serviced in exactly the same way. Intricate and detailed surface features can be achieved by the etching process. Half etched fold-lines facilitate easy forming / bending for the customer.

Precious metals such as Silver can also be etched at our facility, as well as popular metals such as Stainless Steel, Brass, and Copper. ACE has developed new chemistry to etch Aluminium and a new safe chemistry to etch Titanium.

If you have a requirement for Decorative Etched parts then please contact our Sales Team today, we look forward to hearing from you.

Typical components include:

- Advertising products, Business cards,
- Clock dials, Decorative lighting,
- Dog tags, Insignia, Jewellery,
- Marquetry, Nameplates,
- Paper cutter blanks,
- Presentation plaques,
- Speaker Grilles



Advanced Chemical Etching Limited,

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Company Overview

Advanced Chemical Etching is one of the largest specialist metal component manufacturers in Europe, innovating and developing a number of manufacturing processes to meet the needs of our International customers. ACE has scientifically developed special processes to etch through corrosive resistant exotic materials such as titanium (TⁱME), Nitinol, Elgiloy and Inconel various grades. As well as developing a molecular process to etch Aluminium to a new level of dimensional and visual quality and delivery (AC^mE).

World Class Quality

ACE currently holds ISO 9001, ISO14001, as well as a host of customer accreditations.

Through continuous Quality Improvement we seek to provide levels of quality that exceed our customers' expectations.

Close liaison with the customer at every stage ensures full traceability and allows us to offer value design and manufacturing, often securing significant cost downs in the process.

Core Capabilities Overview

Photo Etching (Net Shape) Photo Etching is a process for manufacturing flat metal components by chemical erosion without burrs or stresses in fine detail, in most materials in a very short lead-time.		Aluminium Compliant molecular Etching (Net Shape) Aluminium Compliant molecular Etching (AC ^m E) is a new process scientifically designed for manufacturing highly accurate components in all grades of Aluminium. The process has been scientifically designed at the atomic level to produce finer lines and tighter tolerances than the conventional process.	
Materials	Almost all metals	Aluminium Grades	All Grades Including Clad material
Material Thickness	0.010mm – 1.5mm (0.0004" - 0.059")	Material Thickness	0.010mm – 1.5mm (0.0004" - 0.059")
Component Size	575mm x 600mm (Max) 23" x 24" (Max)	Component Size	575mm x 600mm (Max) 23" x 24" (Max)
Tolerances	<0.01mm range (0.0004")	Tolerances	<0.01mm range (0.0004")
Volumes	One to millions	Volumes	One to millions
Min Feature	<125 microns <(0.005")	Min Feature	<125 microns <(0.005")
Forming, wiring & Assembly	Available in company	Forming, wiring & Assembly	Available in company
Titanium Molecular Etching (Net Shape) Titanium molecular Etching (T ⁱ ME) is a new process scientifically designed for manufacturing highly accurate components in all grades of Titanium. The process has been scientifically designed at the atomic level to produce finer lines and tighter tolerances using safer chemistry than the conventional process.		Wire EDM Wire EDM (Electrical Discharge Machining) is a profiling process that uses electric current and fine wire to precision profile shapes in metals and other conductive materials. It leaves a smooth surface that usually requires no further finish	
Titanium Grades	All grades	Materials	All metals providing they are conductive
Material Thickness	0.025mm – 1.0mm (0.001" – 0.040")	Material Thickness	0.010mm – 50mm (0.0004" – 2.00")
Component Size	275mm x 275mm (Max presently) 11" x 11" (Max presently)	Component Size	200mm x 200mm (Max) 8" x 8" (Max)
Tolerances	<0.01mm range (0.0004")	Tolerances	<0.01mm range (0.0004")
Volumes	One to millions	Volumes	One to 1000s
Min Feature	< 125 microns <(0.005")	Min Feature	< 250 microns <(0.010")
Forming, wiring & Assembly	Available in company	Forming, wiring & Assembly	Available in company

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