



ADVANCED CHEMICAL ETCHING

a process of innovation

Company Overview

Advanced Chemical Etching (ACE) 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 National and International customers. ACE has scientifically developed innovative processes to etch corrosive resistant exotic materials including Titanium (TiME), Nitinol, Elgiloy, Inconel and Aluminium (ACmE), alongside more everyday materials including the various Stainless Steel grades, Coppers, Mild Steel etc. Advanced Chemical Etching's bespoke manufacturing facility in Telford is equipped with the latest production machinery, a dedicated laboratory that is continually developing process parameters, all complemented by a full range of the latest state-of-the-art measuring equipment.

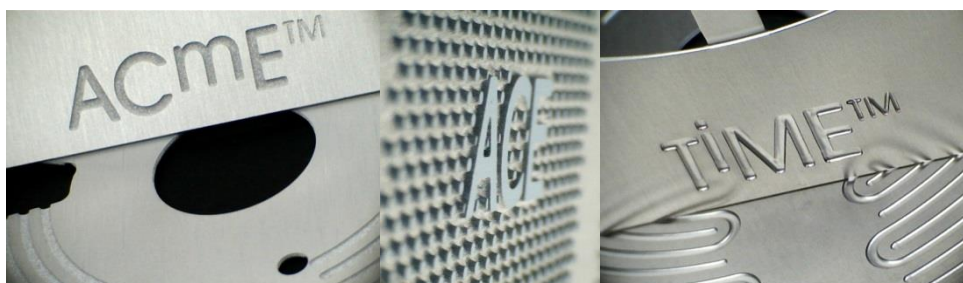
Since our inception ACE has been at the forefront of the Photo Etching industry by constantly challenging the normal process route. By undertaking continuous research and development new chemistry and process capabilities are constantly developed for the manufacture of competitively priced burr and stress free 2 and 3D components for a wide variety of industry sectors. From prototypes through pre-production, and ultimately volume production, ACE are able to supply bespoke components in short timescales utilising low cost digital photographic tooling. Our reputation of service and quality leaves our competitors standing.

World Class Quality

ACE currently holds ISO 9001, ISO14001, as well as a host of customer accreditations and is currently working towards securing TS16949 and AS9100 to support increasing business in the automotive and aerospace sectors.

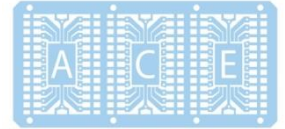
Through continuous Quality Improvement we seek to provide levels of quality that exceed our customers' expectations.

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.



Advanced Chemical Etching Limited, Units 31-34 Hortonwood 33, Telford, Shropshire, TF1 7EX

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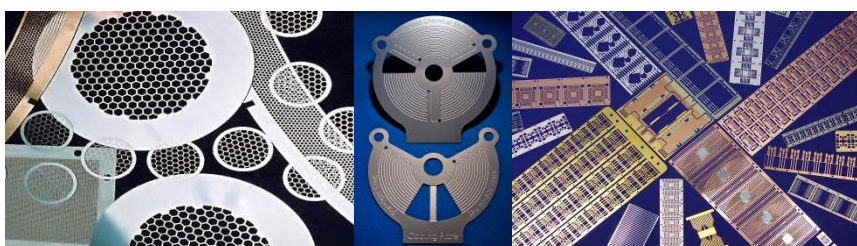


Our Capability and Capacities

Our manufacturing production facility is designed for the flexibility it requires to serve the demand from our customers for many different types of components from over 1500 different material types. The company has pioneered the development of its photo etching and mechanical forming as well as many other in-house processes appreciated by our customers in industries such as Electronics, Medical, Aerospace, Automotive, Military, Precision Engineering, Renewable Energy and other 'High Tech' industries.

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 (ACmE) 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 (TiME) 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 11" x 11" (Max presently) (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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