



Axioma Technologies

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Electro - Chemical Metal Etching Machine

Model: Electro-chemical Metal Etching Machine Consumables

Your metal etching applications can be made easier with the right selection of etching accessories - such as marking heads, white felt, stencil, electrolyte, product fixture. With the right combination of etching machine, etching stencils, electrolytes and accessories like fixture. Your permanent metal marking will seem more like play then work.

-: Stencils :-

We produce wide range of stencils to meet minimum impressions or maximum impressions that you can count on. Images can be custom created by our in house graphics department or you may send us your art work by email, Fax, CD, contact us for more details.

Our quality, long lasting durable stencils can serve your marking requirements. Our recent technology upgrade allows us to produce a highly visible, permanent, neat clean image on a durable marking stencil, which translates into a great looking image on your product. We also provide custom made mountings-fixtures for stencils to get clear and repetitive impressions.

There are two basic types of Stencils available. One type can be made by on an ordinary typewriter or dot matrix printer. The limitation of this type of stencil is that, of necessity, it must be fine line. The other basic type of stencil commonly used is made by photographic process. It starts from black and white art work, thus any line thickness, any size character can be made. The matrix or base of the photographic type stencil is fabric.

This types of metal marking stencils are available to suit any type of information you wish to etch onto your parts.

- * Plain Text Messages
- * High Resolution Logos
- * Serial numbers
- * Pre Printed Part Number
- * Part Identification number
- * Customized Design as per your requirements.

We produce three types of photographic stencils, which differ according to the Class of Impressions for further details you can mail to us.

-: Electrolytes :-

It plays a vital role in electro chemical etching process. Depending upon the material and its properties like hardness, plating, coating, we can make firm recommendation of electrolyte. Most of the electrolytes are corrosion - free and those which are not, we can supply the appropriate neutralizer.

Selection of the proper electrolyte is very important. Using an incorrect electrolyte can produce a mark with an unstable oxide - which can be rubbed off after the mark is made. Most electrolyte cause an excess of oxides and thus clog the stencils, giving poor marks and short stencil life. Therefore, on production runs particularly, it is imperative to use the self-cleaning electrolytes which stop stencil clogging by controlling the amount of oxides created.

Below is a table giving a basic idea of which electrolyte is most suitable for specific marking needs. These are only general suggestions; please contact us regarding the best solution for your project.

Grade's
GP : General Purpose
SS : Stainless Steel
BC : Brass, Copper
BO : Black Oxide
CS : Clear Chrome steel
AL : Aluminum
ST : Titanium, Silver, Gold
CFE : Corrosion Free Electrolyte (Surgical)
GPD : General Purpose Depth



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-: Marking Head :-

The marking head is made of special conductive material called Graphite and available in different shape and size suitable to your requirement.

Available in 5 sizes

- 1) 25 x 20 x 25 mm,
- 2) 35 x 20 x 25 mm,
- 3) 45 X 20 X 25 mm,
- 5) 90 X 20 X 25 mm,
- 6) 120 X 20 X 30 mm

-: Marking Felt :-

White Felt is a conductive net, used in conjunction with our marking heads on an electrolyte marking system provide you with a clear, permanent mark.

Available Sizes : 295 x 215 mm size Sheet, 145 x 215 mm Size Sheet

-: Connecting Leads :-

Connecting Leads we supply is made of Stainless Steel Crocodile Head, used in easier way to get proper flow of current. Connecting lead can directly attach to fixture for ease of operation. Two types of Leads we provide

Black Lead for Marking Head

Red Lead fro Ground connection with Crocodile Clips

