

## Analog Power Units



## Electrochemical Etching Power Units

Provides a low voltage secondary power supply that can be switched between AC and DC output. Most power units provide between 6-44 volts output, controllable via rheostat.

All of our etching power units contain either an internal thermal overload or an external fuse for operator protection, and feature banana jacks or polarity receptacles for use with cord sets.

### Applications Include:

- Component Identification • Component Traceability • Serial Numbering • Logo Marking
- Security Marking • Health & Safety Appliance Marking • Certification Marking
- Decorative Trophy & Award Marking • Time & Date Marking • Part Numbering
- Batch & Shift Coding • Calibration Systems • Label & Tag Marking



### **M-150E: Dual Purpose Power Unit**

- General use power unit
- Suitable for most tool crib and hand marking requirements
- A-F = 6, 8, 11, 14, 17 and 20 volts
- Cost effective
- Compatible with all Monode accessories
- Most popular power unit for surface etching



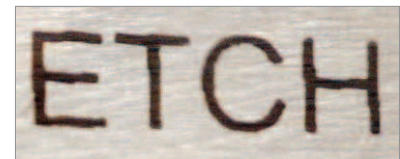
### **M-311E: Deep Etch Power Unit**

- Capable of marking more than 0.006" deep in most substrates
- The Monode deep marking process is safe, legible and most importantly low stress
- A-F Low = 6, 8, 11, 14, 17 and 20 volts
- A-F High = power to 40 volts
- Compatible with all Monode accessories



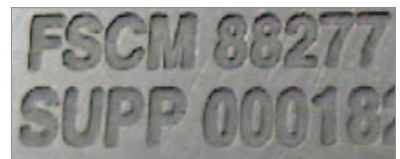
### **Shallow Etching**

- Approximately .001 to .0001 of an inch deep
- Mark is typically produced in less than a second
- Impression is dark in color
- Results from a deposit of a contrasting surface mark



### **Deep Etching**

- .001-.003 inches deep
- If etches greater than .003 inches are required a pulsating power unit with timer is recommended
- Used with a heavy duty power unit with DC current to remove metallic ions from the base material





### MBG- Basic Marking Kit

- Contains basic equipment for the Monode marking method
- Choose from 5 Monode power units:
  - M-150E
  - M-311E
  - M-450E
  - M-550E



- Kit Includes:
  - Bench fixture- B-2045
  - Applicable Wire Set
  - MSC 4 Electrolyte
  - ESN Neutralizer
  - Holder for hand marker- H100
  - Hand marker- HM50150
  - Deep etch pads - DE50150
  - Hand ground
  - 12" x 12" grounding plate



*When identification is critical for traceability or product impact, a quality mark is required. Monode combines creative engineering with a full range of marking solutions to meet your needs. Over a half-century of progress as a trusted "parts marking problem solver" ...that's Monode!*



**Quality Marking Equipment with  
Integrated Machine Vision Solutions**