

Semiautomatic and Automatic Single and Multi Station Systems with Programmable Process Controllers.

AntiBlotch Feature

to maximize mark quality and uniformity especially for marks with wide and bold lines, large etched areas and decorative etchings

Roll Mark Feature

to mark on cylindrical surfaces

Deep Etch Feature

for fast precise uniform shallow depth etches



Mark II

Control/Power Unit with Programmable Embedded Controller; Interface - RS232C.
Where required, TUS writes application Specific Embedded Control Software.
Systems are custom designed and built to customer specification.

Price upon application specific quote

Nondestructive, Fast, Clean

Permanent inscriptions are made in seconds. Mild electrolyte and low voltage current etch the metal surface through openings in a stencil. Only the legend in the stencil is etched into the part surface. Marks/inscriptions cover from very small to large areas. Depth, darkness and shade of inscription are controlled through time, current, electrolyte and marking cycle.

Application

Mark in seconds, with great detail and accuracy permanent inscriptions, part numbers, date codes, designs, logos, on parts of all shapes and sizes made of metals, alloys, steels, carbides; on black and blue oxide, plated/coated parts; on thin and delicate work, large and small, soft and hardened pieces, flat and curved surfaces.

Quality-Productivity-Cost

Fast marking, very short set up times.
Stencil change in seconds.
Long life reusable stencils.
Change of work in seconds.
Quick and clean change of electrolyte.
Minimum consumption of electrolyte.
Fixtures accurately position every mark.
Systems designed for cleanliness of process and equipment



Marking

Fast; permanent; no distortion; no destructive force or heat; burr free.

Surface Etch, Deep Etch.

Color

White, gray, black, metallic, bright, frosted.

Stencils

With excellent durability and detail, mounted in flexible plastic frames for stencil fixture, follow contour of work. Cap stencils, sheet stencils and die impression stencils can be used as well. Stencils are produced by T.U.S. to customer specification

Specifications:

MARK II Marking Machine
Custom built for application

Adjustable Stencil Holder
X-Y-Z adjustable stencil fixture for fast, clean change of flexible framed stencils.
Flexible stencils are independent of marking head and work, and follow the contour of parts.

Quick Change Marking Head Assembly
Pneumatically driven. Vertically/rotationally adjustable marking head position.
Clean and precise internal electrolyte feed to marking head with power cable plug and electrolyte tube.
Flat or shaped heads to fit contour of part. Changed in seconds.

Quick Adjust Work Holding Assembly
Custom made adjustable fixtures; tilt; rotate; x-y slide on tracks; adapt quickly to work of different shape and size.
Mounted on base plate of marking machine.

MARK I - AB/R. Power/Control Unit
corrosion resistant enclosure;
Programmable controller
Marking and Process parameters are selected via LCD readout
power outlets front and rear;
marking cycle indicator light
accessory outlet front and rear;
set of marking cables

Technical Data
Power: 110 V, 60 Cycles; 220 V, 50 Cycles
Air Supply: Max. 120 PSI

(Customized machine layout / dimensions, marking heads, work fixtures will be quoted on request.)

Data and information in this brochure are subject to change without notice.