

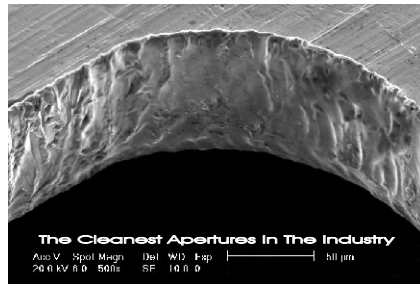
# Ultra-Print Stencil™

## PRODUCT Highlight

Global Stencil introduces the latest stencil technology to produce the ultimate printing stencil for the SMT Assembly Industry. Our new **Ultra Print Stencil™** utilizes both the latest stencil laser cutting technology and the best stainless alloy on the market, developed specifically for the stencil industry. The result is a product that is uniform in thickness across the stencil, has the strength, hardness and corrosion resistance properties of stainless steel, and when cut with the latest fiber laser cutting technology, releases solder paste as well as or better than electroformed stencil.

### The material:

Our material is a stainless steel alloy with superior fatigue strength, SuperSmooth surface and an elevated wear factor. It can be step etched without distortion and maintains excellent flatness. Standard stainless steel has a grain size of 20 to 30 microns, and the Ultra Print Stencil™ material has a grain size of 1 to 2 microns. This



results in a huge increase in the number of grains in the substrate and thus the number of grain boundaries. Energy is absorbed at the grain boundary so the increase in grain boundaries mean higher energy adsorption. This means that we are able to provide a material with a hardness greater than 430 HV and that has a cycle life of  $10^7$  cycles in mechanical applications. It has a special surface treatment to deliver enhanced lubrication and wetting characteristics aiding in the roll and release of

solderpaste. The SuperSmooth surface technology coupled with the unique wetcoat treatment, results in a stencil substrate that will outlast and out print any stencil on the market.

### The Laser:

Global Stencil has recently acquired and installed the latest stencil laser cutting technology the T-8 Stencil Production System. The T8 laser system has been developed over the last 3 years to take advantage of the emerging Fiber laser technology and high precision motion control, to set a new bar for stencil accuracy, quality and speed. The machine gives Global Stencil the ability to "fine tune" many aspects of the laser beam delivery including frequency, beam size, cut speeds among many others to create a superior cut on the superior materials available to the market today. The result is our Ultra Print Stencil™.



### Contact Us:

(972)642-8941

Toll Free outside Dallas/Ft. Worth

(866)290-4488

(972)642-9066 FAX

www.globalstencil.com

email:

customercare@globalstencil.com

files@globalstencil.com

1985 - 2008

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