



Introducing the Gensonic
a manually operated
ultrasonic transducer
unit for cleaning stencil
apertures.

GEN³
SYSTEMS

GENSONIC
STENCIL CLEANING

Features:

Safe & Simple to use

No risk of stencil damage

Typical 3 minute
cleaning cycle

Suitable for both stainless
steel & plastic stencils

Cleans Solder paste or
SMD Adhesives

Accepts both foils or
framed stencils

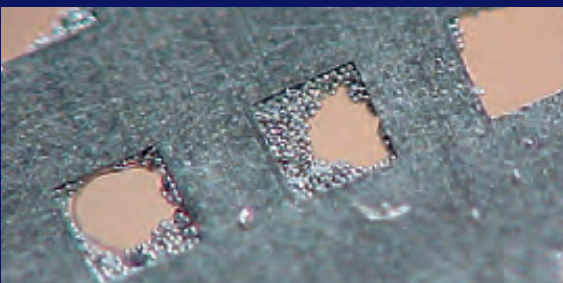


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unit for cleaning stencil
apertures.

Gensonic Stencil Cleaning

The Gensonic can be used either directly on the printer or the stencils can be taken to the Gensonic Stencil Cleaning Centre.

Screen printed solder pastes tend to compact and trap particles into aperture corners and Lead Free solder pastes, that are less dense, tend to demonstrate this tendency even more.



To clean effectively requires both cleaning chemistry and mechanical agitation. Direct Ultrasonic Contact cleaning is the ultimate way to clean SMT stencils. Employing a 40kHz ultrasonic generator, the single transducer head cleans with great efficiency even in tougher applications such as partially set glues.

Adhesive residues can be easily and effectively removed from laser cut stencils; misprinted boards can also be thoroughly and repeatedly cleaned.

Stencil cleaning using Gensonic typically demands less than 50ml of cleaning solution per stencil thereby reducing environmental impact and cost.

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Gen sonic cleans stencils more effectively

"Solder pastes, especially lead-free pastes tend to become compacted and trap particles, blocking fine apertures and deforming aperture corners. Using proven industry cleaning solution and the Gen sonic ultra-sonic transducer directly on the stencil, even the smallest tightest pitch apertures can be cleared and perfectly cleaned. Many users have found that their conventional cleaning systems are 80% to 90% effective, leaving the smallest most sensitive apertures partially occluded. Using the Gen sonic these apertures can be cleared and renewed. This system is effective as a localised cleaner, applied during the print cycle while the stencil is in the printer, preventing expensive and time-consuming shutdowns required to clean problem apertures."

Extract of a technical paper from Blackberry, Dr Beverley Christian entitled: Cleanliness of Stencils and Cleaned Misprint Circuit Boards – Précis:

Gen sonic not only cleans – it polishes:

A Russian customer found that the Gen sonic not only cleans with extreme efficiency, but it actually re-polishes his stencils making them easier and better to print with.

Gen sonic cost effective cleaning:

In the USA, a customer who relocated into new premises left his stencil cleaning system behind, "because the Gen sonic does a better job, quicker, easier and more economically".

Using the Gen sonic with the Stencil Cleaning Centre:

Stencil cleaning in 4 simple steps:

Step One

The stencil is placed into the SCC frame mounted over the special foam pad that is overlain with a disposable paper. Then simply spray on sufficient cleaning solution to dampen the under-screen paper.



Step Two

Place stencil into the support chase and spray fluid over image area.



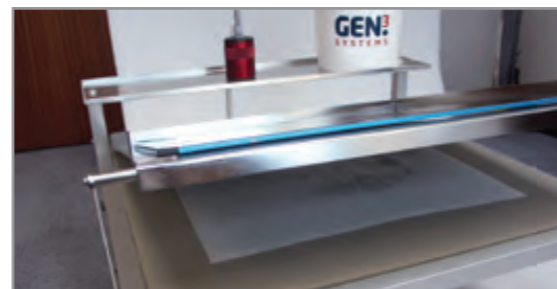
Step Three

Move GENSONIC Transducer over image area. Foot switch operated.



Step Four

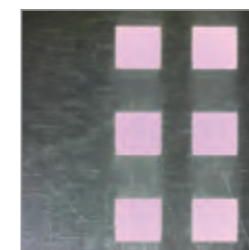
Secure chase to raised position allowing top and underside drying.



Under-screen paper on a "cleaned stencil" that was then Gen sonic cleaned – a perfect print



Stencil before cleaning with Gen sonic



Direct Ultrasonic Contact cleaning with Gen sonic

Gen sonic - The definitive stencil cleaning system

Gen sonic can be used in-situ at the printer saving time and money!

Normally, production has to be halted to shutdown a printer that requires stencil cleaning. The standard routine is to then remove the stencil, clean it – or replace with another – re- install the stencil, re- align and re-start production. Overall, a downtime of at least 45 minutes.

Adhesive residues can be easily and effectively removed from laser cut stencils using the Gen sonic, employing a very similar method for removing solder paste.

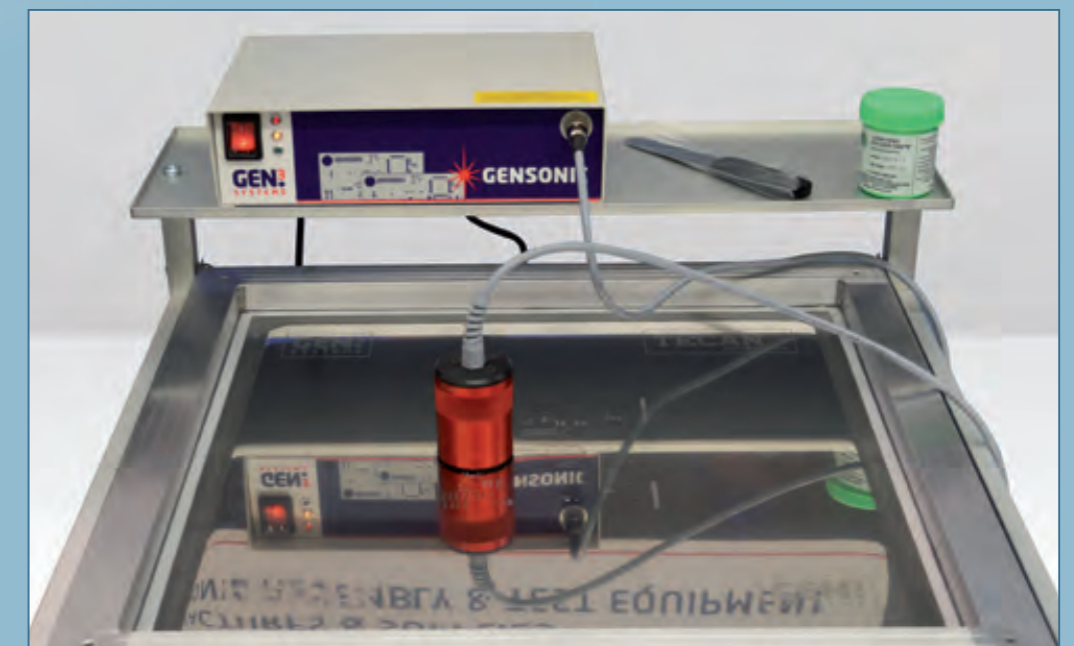
Gen3 has been working closely with Christian Koenen, the highly successful German stencil specialists. CK recently introduced their new M-TeCK stencils that feature micro- apertures that presented a major cleaning difficulty that was overcome, very successfully, using the Gen sonic.

Technical Specifications:

Dimensions: 300mm x 210mm x 90mm (L x W x H)
Voltage: 220-240volt ac 50Hz, 1amp OR 110 volt ac 60Hz, <2amp
Weight: 3.7 Kgs

Gen sonic Stencil Cleaning Centre:

SCC24 - For 584 x 584 mm stencils
SCC29 - For 740 x 740 mm stencils



Gen sonic on Stencil Cleaning Centre

www.gen3systems.com

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