

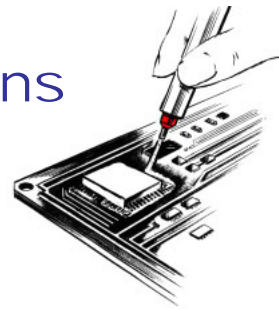
Micro-Abrasive Blasting: Benefits For The Electronic Industry

Conformal Coating Removal ■ Semiconductor Devices
Printed Circuit Boards ■ Reliability Testing ■ Probe Cards
Microwave Components ■ Wafer Fabrication
Wire Texturing ■ Medical Electronics ■ Thermocouples



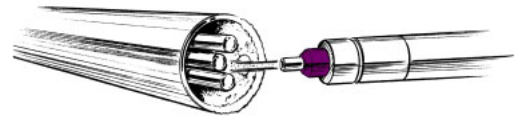
COMCO INC.
800-796-6626

Exacting Micro-Abrasive Solutions for the Electronics Industry



Conformal Coating Removal Without Damage

Micro-abrasive blasting is a fast, safe, and cost effective method for selectively removing conformal coatings from printed circuit boards without the worry of solvent disposal. Micro-abrasive blasting simplifies selective coating removal and virtually eliminates damage to circuit boards or surrounding components.



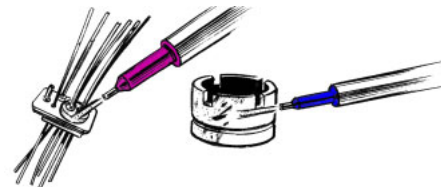
Selective Removal Around Delicate Connectors

The precise control of a MicroBlaster™ allows magnesium oxide filler to be selectively removed without damaging the delicate wire conductors used in thermocouple manufacturing. MicroBlasting can also remove the meniscus surrounding the glass/metal seal on other electronic packages.



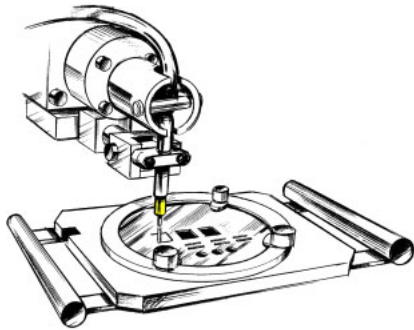
Adhesion Enhancement on Flex Circuitry

Comco's MicroBlasters™ deliver exacting control for delicate texturing to the surface of rigid and flexible substrate materials. This surface preparation provides adhesion enhancement for bonded components and increases the peel strength of the material when it is attached to other substrates. This technique is also used successfully for strain gauge applications.



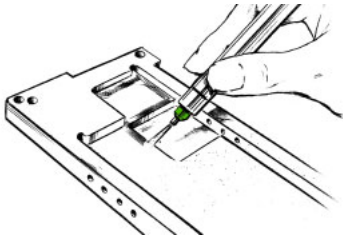
Delicate Cleaning of Ceramic Devices

One of the chief benefits of micro-abrasive blasting is its ability to perform delicate cleaning processes without damaging the underlying surface. This process can be used to remove oxidation, residue, discoloration and surface defects from alumina substrates, probe rings, electrodes, connectors and other electronic devices.



"Shockless" Wafer Cutting

A MicroBlaster™ can be used to cut slots, holes and apertures in thin, fragile substrates. Micro-abrasive blasting is also used for contouring or beveling edges of silicon power devices to expose a junction, or for removal of paper diffusion mask residue and metalization layers on wafers.



Deburring Without Dimensional Changes

MicroBlasting effectively removes fine burrs from edges and openings of complex waveguide components used in microwave communication products. Typically, these components require deburring without introducing dimensional changes or radiuses, which is easily accomplished with the pinpoint precision of a MicroBlaster™.



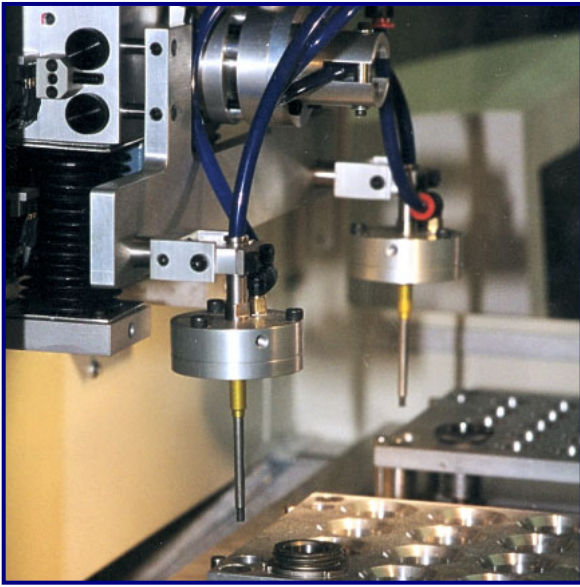
What is MicroBlasting?

The success of micro-abrasive blasting technology is deceptively simple. It is a highly effective method of using very small particles to **clean, cut, deburr, remove material, or texture surfaces** with exacting precision.

Comco's MicroBlasters™ uniformly mix a specified abrasive with a controlled air stream, and then propel it from a small nozzle tip at high velocity. This process has sometimes been called "pencil blasting" because the handpiece can be held as easily as a pencil.

Our systems consist of an abrasive unit, workstation, dust collector, air dryer and the appropriate powder and nozzle to meet your company's exact specifications.

Abrasive media can range from hard silicon carbide to soft bicarbonate of soda. The experts at Comco will always prescribe the right system and the proper media to ensure maximum productivity and performance.



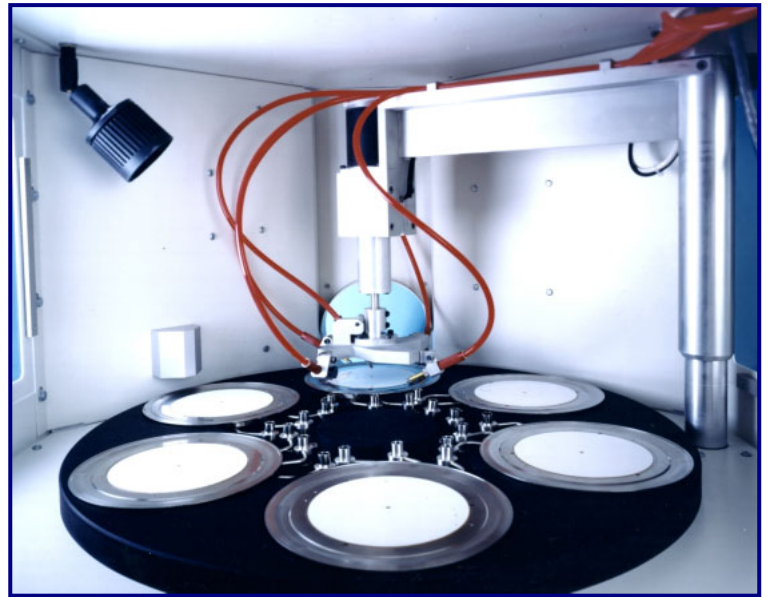
MicroBlasting is More Than a Manual Process

Comco has a wide range of choices of MicroBlasting equipment to meet your specifications – manual or automatic.

The **PR1101 Profiler** is a flexible workstation with computer controlled nozzle positioning in X and Y for maximum precision and repeatability.

Our **SA1203 Surface Abrader** has a 12" wide conveyor belt to carry parts for consistent top surface abrasion while the **SP1200 Micro-Abrading Lathe** combines rotational characteristics of a traditional lathe with the latest in micro-abrasive blasting technology.

The place to start is by speaking to a Comco Application Engineer. With full test facilities they have the ability to expertly demonstrate the benefits of micro-abrasive blasting.



***Call us today and learn how
micro-abrasive blasting
can benefit your business!***

800-796-6626

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