

Precision Deburring with Micro-Abrasive Blasting

The Innovative Solution for Deburring Small Parts

As today's manufacturing processes enable the fabrication of smaller and more intricate parts, it also presents new challenges. Traditional deburring methods, using hand tools to carefully remove burrs, are no longer adequate.

Micro-abrasive blasting provides a solution to the challenge of deburring small parts. Comco has developed blasting equipment to effectively remove fine burrs on complex geometries without causing dimensional changes to the part.

The key to this process is finding the right combination of abrasive, nozzle size and air pressure to quickly cut off the burr.



The Power & Precision of Comco MicroBlasting

Abrasive particles are projected through a small nozzle at roughly 1/4 the speed of sound. The fragile nature of the burr makes it more susceptible to the abrasive force than the base layer.

When dealing with manifolds or injectors it is important to be able to reach down inside a part. Often these types of parts have intricate shapes that are difficult to deburr using hand tools. We have developed a variety of extended and right angle nozzles that enable the operator to blast burrs from these hard to reach areas.

Like hand tools, micro-abrasive blasting can take advantage of the incredible dexterity of the human hand. Holding the handpiece like a pencil, the operator can accurately direct the stream of abrasive at the burr they want to remove.

Micro-abrasive blasting has proven to be an effective method for deburring:

- Hydraulic Valves
- Gear Spines
- Medical Devices
- Fuel Injectors
- Electronic Components
- Wave Guide Packages
- Nozzles
- Mold Cavities
- Hypodermic Needles
- Swiss Precision Parts

Micro-Abrasive Blasting for Precision Deburring



Titanium Bone Screw



SS Pneumatic Valve Deflectors



Pin Grid Array



Actuator Poppet



Teflon Connector



Gears

Sample materials that can be deburred with micro-abrasive blasting:

- Nitinol
- Titanium
- Tungsten Carbide
- Aluminum
- Brass
- Kovar
- Stainless Steel
- Delrin
- Nylon
- PEEK
- Torlon
- Vespel

Integrating Micro-Abrasive Blasting with Automation

Comco also designs semi-automated systems for high volume production. By integrating a variety of splitters and nozzles with powerful blasters, Comco can provide the optimal solution to meet your production requirements.

Comco's Applications Lab

Comco's Applications Engineers have the expertise and complete test facilities to determine if a micro-abrasive blasting process can improve your production efficiency and product quality.



**Contact us today at 800-796-6626
and discover the Micro-Blasting solution to your production problems!**

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