

# 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.

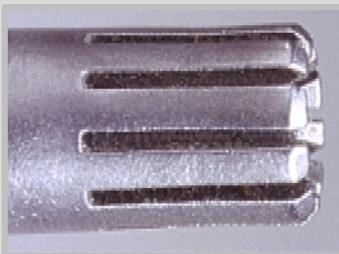
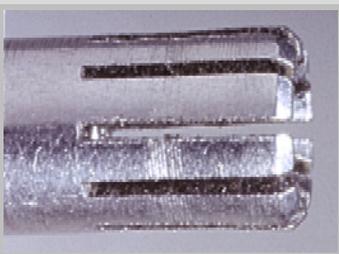
The key to this process is finding the right combination of abrasive, nozzle size and air pressure to quickly cut off the burr.



*Before MicroBlasting*



*After MicroBlasting*



## The Power & Precision of Comco MicroBlasting

Abrasive particles are projected through a small nozzle at roughly  $\frac{1}{4}$  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.



# MicroBlasting: an Effective Method for Deburring:



**Titanium Bone Screws**



**Gears**



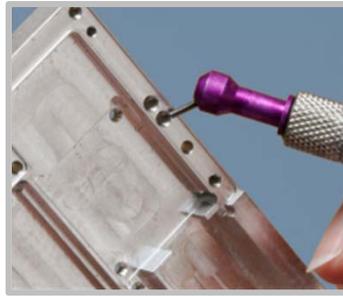
**Manifolds**



**Teflon Connectors**



**Actuator Poppets**



**Wave Guides**



**Pin Grid Arrays**



**SS Pneumatic Valve Deflectors**

## Sample materials that can be deburred with

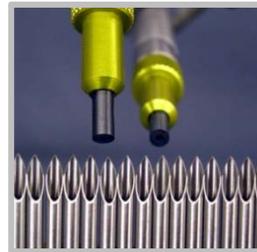
Nitinol	Titanium	Torlon	Brass	Nylon	Stainless Steel
Kovar	Aluminum	Vespel	Delrin	PEEK	Tungston Carbide

## Automated Solutions for Increased Production

For more than 45 years Comco's engineers have integrated up to four axis of motion, multiple nozzles, conveyors, and powerful blasters into automated equipment. If your application requires greater production capabilities than a manual blasting system provides, contact us today.

## 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 MicroBlasting solution to your production problems!**

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