

The MicroBlaster®

Unmatched Reliability & Control



MB1002 Dual Tank

MB1000 Single Tank

Engineered for Your Job!

The power, precision and repeatability of micro-abrasive blasting combine to make it an ideal process for a variety of manufacturing applications.

COMCO INC.

MicroBlaster® Model MB1000

Single Tank Micro-Abrasive Blaster

The Classic Blaster – Compact & Affordable

For over 30 years, Comco's MicroBlaster® model MB1000 has delivered unequaled performance, reliability, and precision.

This lightweight blasting unit fits easily on top of any workbench, conserving valuable shop space. The 2 lb. capacity powder tank is quick and easy to refill. The patented Modulator and Comco's exclusive Pinch Valve System combine to deliver consistent media flow with a rapid "start/stop" response.

Every Comco MicroBlaster® is built tough to perform day after day in multiple shift, high volume production environments, yet is an affordable choice for shops requiring micro-abrasive blasting only a few days a week.

- *Quality Built / Value Priced*
- *2 lb. Abrasive Tank with QuickFill Feature*
- *Lightweight Bench-Top Unit*
- *Patented Modulator System for Consistent Powder Flow*
- *Exclusive Pinch Valve Design to Reduce Maintenance*
- *Engineered for Simplicity & Reliability*



What is Micro-Abrasive Blasting?

Micro-abrasive blasting (MicroBlasting) is a deceptively simple process. Often compared to a miniature precision sandblaster, Comco's MicroBlasters® work by uniformly mixing clean, dry air with abrasive particles as small as 17.5 microns. The mixture is then propelled out of a nozzle tip at high velocity resulting in an abrasive stream that is tightly focused and easy to control.

The type of abrasive, air pressure, and size of the nozzle opening makes it easy to keep these factors constant – delivering a high degree of repeatability with every blast. Micro-abrasive blasting is both cost effective and environmentally friendly.

Take a Closer Look at the MicroBlaster®

Robust Construction

Engineered to last, the MicroBlaster® features hardened components, less plumbing, and simplicity of design, resulting in reliable performance and less maintenance than competitive systems.

Abrasive Media Tank Assembly

ACME threads are incorporated into the tank cover for easy installation and extended wear resistance. Our unique "Quick Refill" design enables you to add abrasive in a matter of seconds.



Powder Feed

Our patented Modulator is the core of Comco's powder delivery system. It ensures consistent media flow by accurately metering the abrasive into the air stream.



Quality Abrasive Media

Quality abrasive powder is essential for successful MicroBlasting. We maintain strict standards to produce pure, dry, and accurately sized abrasive media to ensure consistent blasting with every use.

Start/Stop Control

Reliable performance is ensured with Comco's exclusive Pinch Valve System, which reduces machine maintenance and parts replacement downtime.



Wide Range of Nozzles

An extensive range of nozzle shapes and sizes are available to facilitate different applications. All Comco nozzles are color-coded for easy identification. (Refer to Comco's nozzle and abrasive media catalog.)

MicroBlaster® Model MB1002

Dual Tank Micro-Abrasive Blaster

Two Tanks for Twice the Versatility

For applications that require a two-step process, Comco's Dual Tank MicroBlaster® model MB1002 is the ideal machine. With the Dual Tank, an operator can blast a part with an aggressive cutting abrasive to remove burrs and quickly change to a peening abrasive to impart a different finish on the same part.

Precision machine shops, facilities performing circuit board rework, and dental labs all benefit from the versatility of the MicroBlaster® Dual Tank.

This lightweight blasting unit fits on top of any workbench. The 2 lb. capacity powder tanks are quick and easy to fill. The Dual Tank MicroBlaster® is engineered to perform day after day in multiple shift, high volume production environments. The Dual Tank is equipped with all of the features of Comco's Single Tank and offers extra features including:

- Two 2 lb. Abrasive Tanks with QuickFill Feature
- Allows for the Use of 2 Different Abrasive Media at the Same Time
- No Fear of Cross Contamination
- Increased Operator Convenience



MicroBlaster® Options

- **Constant Air Bleed** – In some applications such as hypodermic needle processing, it is necessary to have the nozzle located in an environment near cutting fluids or moisture. Moisture in this area could cause the abrasive to clump up and clog the nozzle. Blasters equipped with the Constant Air Bleed provide a low pressure, continuous stream of air flowing out through the nozzle, preventing moisture from migrating up inside the tip.
- **Tank Extenders** – The powder capacity of a standard MicroBlaster® tank is equivalent to 2 lb. of aluminum oxide. Tank extenders are available that double or triple the powder capacity.
- **Blast Timer** – When the duration of each blast is crucial to a process, the External Blast Timer provides the solution. When the blast timer is set, depressing the blaster foot switch activates the blast cycle for only the preset period of time. The External Blast Timer provides increased control and a higher degree of repeatability to the process.
- **High Pressure models** – For special applications, single and dual tank blasters are available in High Pressure models. The higher air pressure provides an increase in the cutting action, which enables the abrasive stream to penetrate thick compounds and coatings more efficiently.



MicroBlasting for Every Application

From Hand-Held to Semi-Automated Solutions



- *Cutting Slots in Silicon Wafers*

- *Removing Laser Slag on Stents*

- *Peening Stainless Surgical Instruments*

- *Deburring Laser Machined Fuel Injector Ports*



- *Removing MgO from Thermocouples*

- *Cleaning Turbine Blade Orifices*

- *Conformal Coating Removal*

- *Deburring Hypodermic Needles*

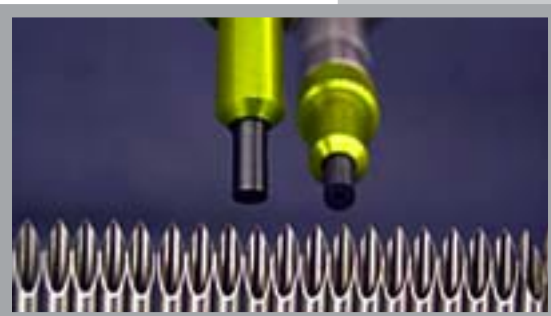


- *Cleaning & Texturing Injection Mold Tooling*

- *Engraving Optical Lens Elements*

- *Deburring Swiss & Precision Machined Components*

- *Surface Preparation on Polymer & Alloy Tubes*



MicroBlaster® Specifications

Models:	MB1000 Single Tank MB1005 Single Tank, High Pressure	MB1002 Dual Tank MB1006 Dual Tank, High Pressure
Shipping Weight:	34 lbs. (15.5 kg)	46 lbs. (20.9 kg)
Size: Height Width Depth	9 in. (23.0 cm) 17 in. (43.5 cm) 10 in. (25.5 cm)	9 in. (23.0 cm) 22 in. (56.0 cm) 10 in. (25.5 cm)
Operating Air Pressure:	Standard Models MB1000 / MB1002 40 - 120 psi. (2.8 - 8.6 bar) Hi Pressure Models MB1005 / MB1006 40 - 185 psi. (2.8 - 12.5 bar)	
Nozzle Sizes:	Round: .015 to .060 in. diameter (.38 mm - 1.5 mm) Other shapes and sizes available.	

Facility Requirements

Inlet Air Pressure:	Standard Models MB1000 / MB1002 80 - 140 psi. (5.5 - 9.65 bar) Hi Pressure Models MB1005 / MB1006 80 - 200 psi. (5.5 - 13.8 bar)
Air Volume	Depending on nozzle size and air pressure, consumption is typically 0.5 - 2.0 SCFM (235 - 950 cm ³ / sec.)
Air Supply Quality:	Dried to - 25° F dew point (<200 ppm of moisture) and oil content filtered to <10 ppm
Power Requirements:	115V/60Hz or 230V/50Hz 40 Watts
All MicroBlaster® models come with a one year warranty and are available CE compliant. Consult your Comco representative for specific details.	



***Call us today with your specific manufacturing problem
and let us help provide the micro-abrasive blasting solution.***

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