

VANIMAN MICRO-ABRASIVE BLASTING SYSTEMS AND INDUSTRIAL APPLICATIONS

BACKGROUND

Vaniman Manufacturing, Inc. began business in 1985. We manufacture and sell micro abrasive blasters and dust collectors worldwide through distributors. Our goal is to provide quality products that fill a niche in the industrial market. We are always expanding our product line to better serve our customers.

UNIT DESCRIPTION

The Vaniman units are portable micro abrasive blasters.

“Portable” means lightweight, 7-26lbs.

“Micro” means small and precise, using media in the 60 to 220 grit and orifices .015” to .089”

“Abrasive” means using a blasting media that will cause the target material to be abraded.

PROBLAST II

PROBLAST

MASTER PROBLAST

PROBLAST 3

MASTERPROBLAST 3

MASTERPROBLAST ESD 3

MOBILE PROBLAST

MASTER MOBILE PROBLAST

HOW THEY WORK

All the blasters are pressure pot systems:

A pressure pot blaster works by mixing the air and media in the hopper (or pot). The mixture is carried to the nozzle by the hose. The air and media are then forced out together in one stream.

NOZZLES

Vaniman carries a variety of specialty nozzles to cover all your blasting needs:

The round tips come in crystal or carbide. We have three crystal sizes: .032”, .048”, and .089”.

The carbide tips sizes are: .026”, .036”, and .059”. We also carry a line of specialty tips; rectangular, right angle and extended tips to get into those hard to reach places.

APPLICATIONS

Every day new technology is discovered. Tomorrow there will be more uses for our blasters, but here are some of the uses for today:

ARTS/CRAFTS

- Decorating/personalizing glass and stemware
- Etching trophies
- Etching mirrors

AUTOMOTIVE

- Cleaning small parts
- Preparing surfaces for adhesive or plating
- Identification

CERAMICS

- Trimming and edging
- Drilling holes and cutting windows
- Identification marking
- Removing printing and layout
- Cutting thin ceramic pieces

ELECTRONICS

- Resistance wire stripping - potentiometer and delay line
- Semiconductor adjustment and trimming
- Lead cleaning
- Micro-module fabrication
- Contact cleaning
- Cutting quartz and crystalline materials
- Cutting silicon wafer
- Adjust circuit boards
- Remove conformal coating

GLASS/GLASS INDUSTRY

- Cutting very thin glass sheet
- Trimming and edging glass components
- Cutting windows in glass envelop
- Taking test slice from center of glass piece
- Identification markings
- Frosting/etching decorative glassware
- Cutting optical filters

LABORATORY

- Drilling holes in laboratory glassware
- Identification marking
- Preparing surfaces for strain-gage application
- Testing abrasion resistance
- Creating artificial flaws
- Score tubing for breaking to length

MACHINE SHOPS

- Deburring and edge breaking
- Drilling and cutting thin hardened metals
- Marking and identification
- Lapping uneven or internal surfaces
- Removing plating and anodizing from specified area
- Cleaning corrosion and contaminants
- Unload diamond wheels during grinding
- Remove/hide machine marks

MANUFACTURING

- Clean surfaces for adhesives and coatings
- Marking and parts identification
- Remove scratches
- Etch surfaces

MEDICAL/DENTAL

- Cleaning castings
- Preparing surfaces for coatings or adhesive
- Removing contaminates

METAL WORKING

- Deburring Swiss screw machine parts
- Removing copper flash from EDM components
- Cleaning dies
- Etching/markings parts

MUSEUMS

- Removing matrix from fossils
- Removing glue and paint from various surfaces
- Cleaning metal objects
- Sculpturing jade and semi-precious stones
- Removing dirt
- Cleaning ceramics

PLASTICS/PLASTICS INDUSTRY

- Remove flash from molded parts
- Remove burrs from machined holes
- Clean cavities
- Remove rust and other contaminates from molds and dies
- Cutting/drilling hard plastics
- Marking/identification of parts and molds
- Making adjustments in hardened molds