



## EMPIRE ABRASIVE EQUIPMENT COMPANY

2101 West Cabot Blvd.  
Langhorne, Pa 19047  
215-752-8800, FAX 215-752-9373  
Web Site: [www.empire-airblast.com](http://www.empire-airblast.com)

# EMPIRE EQUIPMENT NEWS

**PROCESS:** To improve air blast etching of large flat sheets, Empire develops an automated system to process large sheets with minimal operator involvement. The



main objective was to produce a uniform blasted surface, on one side, within a self-contained environment.

**INDUSTRIES:** Coating Suppliers and Manufactures

### **EMPIRE EQUIPMENT:**

- 8460P Inline ¼" Steel Blast Enclosure
- Powered Part Belt Conveyor
- Eight 5/16" Pressure Nozzles
- 10 cu. ft. Single Chamber Pressure Vessel
- 36 inch ball screw nozzle oscillator
- Media recovery screw conveyors
- Bucket Elevator with media airwash
- Automatic media reloading system
- 2000 cfm media reclaimer
- Media make-up hopper
- Load and un-load stations

After the sheet is loaded on one side, the automatic system processes the sheet with oscillating pressure nozzles for uniform coverage, as it moves through the blast enclosure. The plate indexes 1 inch or more at a time and the nozzles oscillate upward until part was covered and indexes again. Then the nozzles move down to cover the next area and, so forth, until completed.

Unit processes various sheet sizes one after the other as they are loaded for cleaning and unloaded when done.



With PLC Automatic System Controls, the unit reduces operator involvement and uniformly blasts each part

while keeping him out of harms way. For added control, the process can be stopped and restarted without lose of a uniform finish and finish is maintained across the entire part surface.

It has a media makeup hopper to reduce operator's duties during blasting. The powered conveyor and load stations make for easy part handling and increase productivity.

For further information on Empire's complete PRODUCT LINE and OPTIONS, please contact your Local Distributor, call Empire at (215) 752-8800 or visit our WEBSITE –

<http://www.empire-airblast.com/>