

Wheelabrator Inline Peening System

Wheelabrator® Automated Airblast Systems have been designed specifically for exacting specifications called for in Aerospace, Automotive and other specialty industry applications. Using precision, multiple-axis nozzle manipulation and part movement, Wheelabrator systems allow for flexibility and repeatability to peen a wide variety of aerospace structural, spars and other components. Unlike other complex CNC based control systems, Wheelabrator controls and operator interfaces allow the system operator to create techniques and program process parameters with great ease.

The Wheelabrator Inline Peening System is ideally suited for processing aerospace components such as wing spars, structural members, composites and also other non-aerospace components. Quite simply an effective means to repeatable peening results.

- Applications
- Wing Spars
 - Composites
 - Other Structural members

- Specifications
- NADCAP
 - MIL
 - OEM (Boeing, Rolls-Royce, GE, etc.)

Features:

- Capability topeen both sides of part simultaneously
- Sturdy, thick mild steel blast cabinet for reduced maintenance and long life
- Sound insulation and rubber lining in the cabinet interior for reduced operational noise levels
- Mechanical or Vacuum media recovery for handling ferrous and non-ferrous peening media
- System adaptability for different media types (shot, cut wire, glass or ceramic bead etc.) to address changing process needs
- Process Control - media size classification, flow rate, peening pressure for consistent peening results
- Single and multiple axis nozzle manipulation to direct media stream at specific part locations
- Infeed and Outfeed Conveyors to move parts through the cabinet
- Integral Ventilation and Dust Collection
- Test fixtures and factory process prove-out prior to shipment

Controls:

- User-friendly Touchscreen interface to access and alter all system parameters
- Optional PC-based interface allows greater storage and reporting capabilities
- Operator capability to program and store techniques using simple controls
- Closed-loop feedback and process controls for repeatable and consistent peening results
- Detailed diagnostics to assist in troubleshooting

Options:

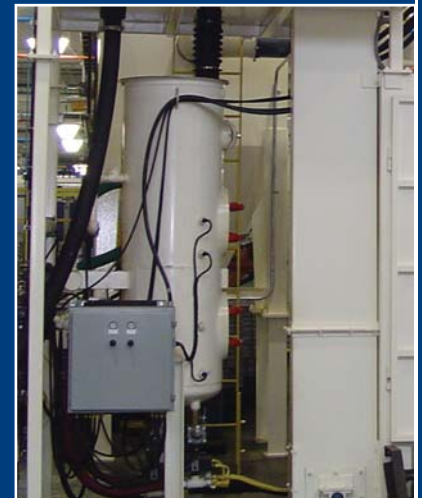
- Endless Belt Conveyors suited for specific part styles
- Dual size media capability
- Suction style media propulsion system
- Multi-axes nozzle manipulators
- Rotary table to spin parts in blast zone
- Indexing conveyors to process parts with long blast cycles

Utility Requirements:

- Each 3/8" nozzle consumes 160 CFM of air at 80 PSI. Total compressed air requirement may vary depending on blast pressure and nozzle size
- Connected load: 7-10 HP (base). Additional load requirements will depend on options selected.
- Space requirements are part specific. Overall height is usually contained within 20' above floor level.

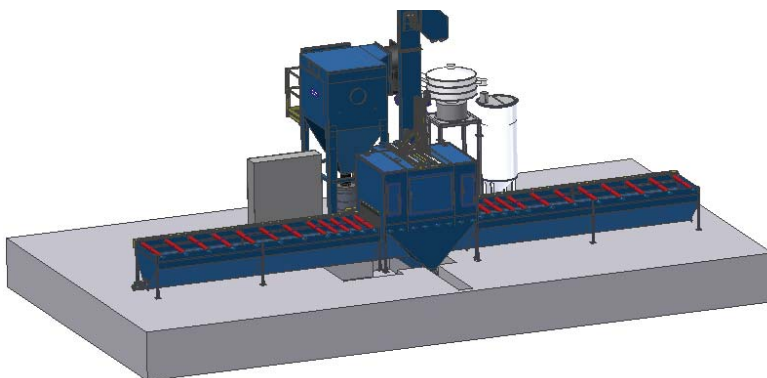


Roof (external) mounted Multi-axis Nozzle Carriage



Media Size Classifier & Blast Tank

technical specifications



For more information please contact

Wheelabrator Equipment Sales
1219 Corporate Drive
Burlington, Ontario L7L 5V5 • Canada
(800) 845-8508 • (905) 319-7930
Fax: (905) 319-7561

Wheelabrator Parts, EMP and Service
1606 Executive Drive
LaGrange, GA 30240
(800) 544-4144 • (706) 884-6884
Fax: (706) 884-0568

info@wheelabratorgroup.com