

Peening Systems For Engine Components

Wheelabrator® Automated Airblast Peening Systems have been designed specifically for the aerospace industry's exacting specifications. Using precision, multiple-axis nozzle manipulation and part movement, the Wheelabrator systems allow for flexibility and repeatability to a wide variety of engine components. Unlike other complex CNC based control systems, Wheelabrator motion controls allow the system operator to teach part techniques and program process parameters with great ease.

The Wheelabrator Automated Airblast Peening System for Engine Components - a simple and effective means to repeatable peening.

Applications

- Fan Disks
- Compressor Disks
- Overall Peening
- Slot & Hole Peening

Specifications

- NADCAP
- AMS
- MIL
- OEM



**PEENING SYSTEM -
ENGINE COMPONENTS**

Features

- 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
- 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
- Axes interpolation allows processing of complex parts and following contours
- Operator capability to teach and store techniques by manipulating nozzles
- Integral process control system for repeatable and consistent peening results
- Detailed diagnostics to assist in troubleshooting

Options

- Multiple nozzle manipulators topeen bores, splines, holes etc.
- Dual (ferrous and non-ferrous) media capability
- PC Controls for enhanced technique storage

Utility Requirements

- A two-nozzle machine requires about 340 CFM of compressed air. Requirement may vary depending on peening pressure and nozzle size
- Total connected load: 7-10 HP
- Overall space requirement: 10' x 15' x 18' high



Part on mandrel for coverage and media drainage

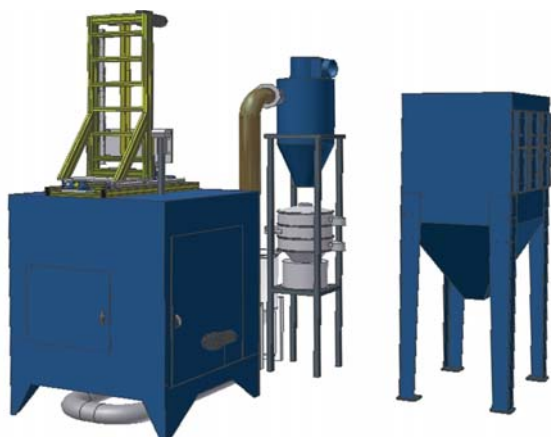


Bore Peening



User-friendly operator interface

technical specifications



For more information please contact

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