

Wheelabrator Mining Bits-Peening

Wheelabrator® Automated Airblast Systems have been designed specifically for peening applications in the mining industry. Using precision, multiple-axis nozzle manipulation and part movement, Wheelabrator systems allow for flexibility and repeatability topeen ID and OD of rock drill bits. Wheelabrator controls and operator interfaces allow the system operator to create techniques and program process parameters with great ease. Changeover times are drastically reduced by Wheelabrator designed versatile peening systems.

The Wheelabrator Peening System for Mining Bits is ideally suited for peening rock drill bits (surface mining and DTH). Quite simply an effective means to repeatable peening results.

Applications

Peening the following areas of rock bits

- Shank
- Face & Button Hole
- Shoulder
- Internal Passages (ID)

Specifications

- MIL
- OEM



Features:

- Sturdy, thick mild steel blast cabinet for reduced maintenance and long life
- Door mounted rotary table for easy part loading/unloading
- Table design permits 'shank down' loading while peening face and button hole
- Sound insulation and rubber lining in the cabinet interior for reduced operational noise levels
- Fully flexible nozzle manipulation - single and multiple axis carriages
- Quick changeover arrangement adapts nozzle manipulator topeen part ID
- Aircraft door style inflatable seal reduces source noise and prevents media leakage
- System adaptability for different media types (shot, cut wire etc.) to address changing process needs
- Integral Ventilation and Dust Collection
- Test fixtures and factory process prove-out prior to shipment

Controls:

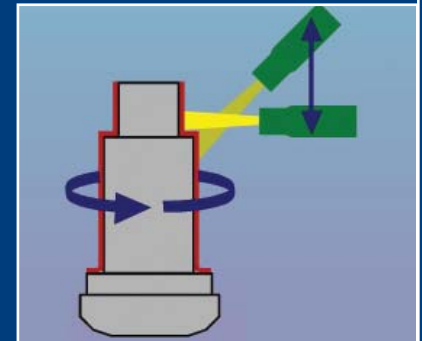
- User-friendly Touchscreen interface to access and alter all system parameters
- Operator capability to program and store techniques using simple controls - optional
- Closed-loop feedback and process controls for repeatable and consistent peening results
- Detailed diagnostics to assist in troubleshooting

Options:

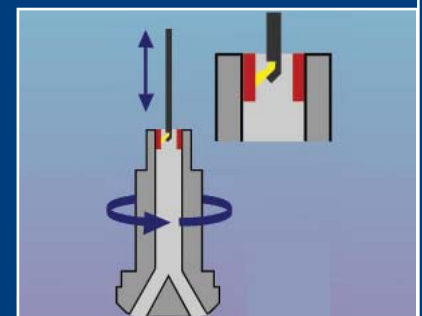
- Process Control - media size classification, flow rate, peening pressure for consistent peening results
- Dual size media capability
- Custom cabinet designs and work handling arrangements to suit specific requirements
- Multi-axes nozzle manipulators

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: 10-15 HP (base). Additional load requirements will depend on options selected.
- Approximate space requirements: 15' x 8' x 18' high above floor level



OD areas peened by multiple nozzles

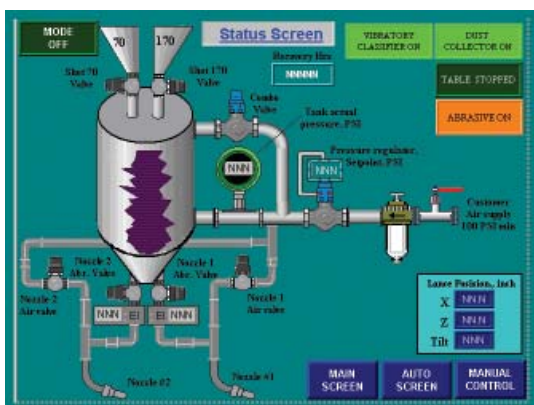


Deflector Tipped Nozzle for ID areas



Nozzle Lance reciprocating inside part ID

technical specifications



User friendly touch screen operator interface

For more information please contact

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