

Carbon Black and Pigments Applications



Volkman vacuum conveyors are ideal for the transfer of carbon black powder and pigments to mixers, packers or process from:

- Paper Sacks
- Bulk Bags
- IBCs

And we can do it:

- Cleanly
- Safely
- Segregation Free



Carbon black toner transferred via a Volkman conveyor to a bottle filling machine.

Carbon black, toner and pigment transfer, whether in powder or prill form, present a number of specific challenges during product transfer including environmental cleanliness and the avoidance of product segregation or degradation. These challenges are uniquely addressed by the Volkman VS range of vacuum conveyors.

The Volkman VS range is completely enclosed and transfers product under vacuum. In the unlikely event of a leak, air is drawn into the process – material is not blown out. This keeps the material where it should be, inside the conveyor. When coupled to specially designed rip and tip bag stations or bulk bag unloaders, product transfer is achieved without spillage or emissions.

In addition, because of the dense phase conveying achieved by the Volkman Multijector® vacuum pump, product being transferred does not suffer from the impact damage or segregation associated with typical lean phase pneumatic conveying systems and equipment.

WHY VOLKMANN?

- DUST FREE
- FLOOR LEVEL LOADING
- 50 LB BAGS OR 2000 BULK BAGS
- MINOR INGREDIENTS
- NO TOOLS, EASY CLEANING
- DAMAGE FREE
- SEGREGATION FREE
- SUPERIOR FILTRATION, WITH .3µ AS STANDARD
- "PLUG AND CONVEY"
- ALL PNEUMATIC OPERATION
- ATEX CERTIFIED FOR EXPLOSION APPLICATIONS
- MODULAR DESIGNS
- LIGHT WEIGHT PUMPS



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Quality Vacuum Conveying Systems for 30+ Years

VOLKMANN vacuum conveyors are the first choice for safe and hygienic powder handling.

Energy Efficient

Volkman Multijector® vacuum pumps use the Venturi principle to generate vacuum. Unlike single stage pumps, they create energy efficiency with their reuse of generated air as it passes through a series of Venturi in multiple stages. This process provides a greater level of vacuum, down to 27" Hg, and high airflows.

The pumps are lightweight, quiet and use up to 50% less compressed air in any given application than their competitive single-stage units.

In addition, Multijector pumps can be turned on and off without fear of damage to the unit, offering more efficiency than electrical pumps restricted by the number of starts and stops allowed per hour.

Gentle Transfer

Whenever tablets or capsules are transferred, the issue of damage is a potential concern. Inevitably, this is complicated by the need for quick product changes as production needs dictate. Volkman conveyors address these issues in the following ways:

- Our Multijector vacuum pump is highly adaptable, allowing the handling of a wide variety of tablets by the same unit.
- The ability to adjust the inlet air volume and associated vacuum level allows the velocity of transfer to be carefully controlled.
- We offer a range of semi-automatic unloading devices to ensure a consistent flow of tablets or capsules to the conveyor, thereby providing controlled parameters for the conveying cycle.

Flexibility of Design

All Volkman conveyors use modular designs to adapt to the particular requirement. Variations in filter area, type of material entry to the receiver, pump size and specification, discharge flange connections and the incorporation of flow aids are all available. The same modular concept allows the attachment of drum, box or IBC unloading.



Conveying of dust, powder, pigments, flakes, granulated material, tablets, capsules, small parts, etc.

Special designs are available to fulfill the demands of the Chemical, Food, Pharmaceutical and Color/Lacquer Industries.

Suction out of/from...

- Hoppers
- FIBCs
- Silos
- Drums
- Bags/liners
- Dryers
- Cutting machines
- Floors
- Molds

Feeding directly into...

- Mixers/blenders
- Filling machines
- Tablet presses
- Weighing hoppers
- Reactors
- Sieves
- IBCs
- Bag fillers
- Drums
- Silos



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