

# Chemical Applications

**Volkman vacuum conveyors are ideal for the transfer of all types of chemicals to reactors, mixers or process from:**

- Paper Sacks
- Bulk Bags
- IBCs
- Silos

**And we can do it:**

- Cleanly
- Safely
- Economically
- Segregation Free



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

The need for a simple, safe, economic and CONTAINED system for powder transfer is paramount. In the transfer of filter aids, pigments, salts or corrosive chemicals, whether in powder or prill form. Volkman's VS range of vacuum conveyors meets all of these parameters and does so with a design that can be adapted to almost any installation.

Volkman VS range of conveyors 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, maintaining environmental cleanliness and avoiding noxious fumes escaping into the atmosphere. When coupled to specially designed rip and tip bag stations or bulk bag unloaders, transfer is achieved without spillage or emissions. Volkman conveyors are ATEX certified. Ask for details of applicable zones.

## WHY VOLKMAN?

- DUST FREE
- DAMAGE FREE
- SEGREGATION FREE
- ALL STAINLESS AS STANDARD
- MAJOR or MINOR INGREDIENTS
- SUPERIOR FILTRATION, WITH 3 $\mu$  AS STANDARD
- NO TOOLS, EASY CLEANING
- INEX OPTIONS
- "PLUG AND CONVEY"
- ALL PNEUMATIC OPERATION
- ATEX CERTIFIED FOR EXPLOSION APPLICATIONS
- MODULAR DESIGNS



[www.VolkmanUSA.com](http://www.VolkmanUSA.com)

# 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:

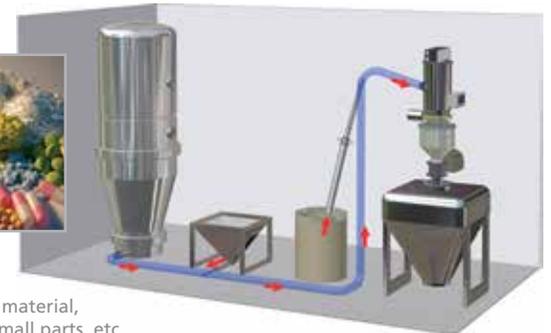
- Our Multijector vacuum pump is highly adaptable, allowing the handling of a wide variety of tablets by the same unit.
- The ability to adjust the inlet air volume and associated vacuum level allows the velocity of transfer to be carefully controlled.
- We offer a range of semi-automatic unloading devices 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 Pigment 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

