

hanningfield



Vacuum Conveyors



Uni-Vac Systems

Welcome to our vacuum conveying section.

This area is designed to help you find out everything you need to know about vacuum transfer of material in general, and

Hanningfield's

'Uni-Vac'

vacuum conveying systems
in particular.

Whether you are seeking to understand the principle of conveying itself, want to ask a question or are looking for a conveyor, our aim is to solve your problem.

With many years worth of knowledge, **Hanningfield** are experts in the design, manufacture and maintenance of vacuum transfer solutions and would be please to share this knowledge to help improve your process.

Please select your area of interest below:

{faq inline/tabs}

What is Vacuum Conveying?

Vacuum transfer systems are an excellent method of moving powder, granules, pellets and other material. The systems use a vacuum to carry the material through the pipework, allowin material to be transferred {xtypo_quote} Vacuum conveying is a method of transferring conveying of bulk materials.

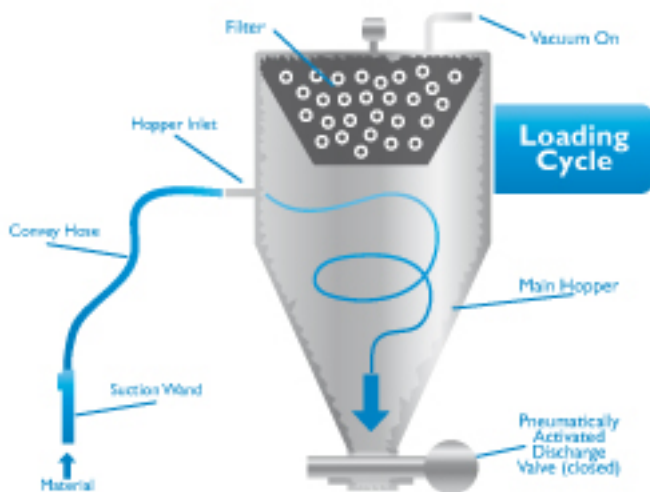
Example Uni-Vac Application: Feeding a Tablet Press

Ideally suited to powders, granules and similar materials, a 'dust-tight' product transfer is achieved. The

For example, powder can be sucked directly from an IBC, into the conveyor, and then transferred from the

The diagram here shows a basic example of how vacuum conveying from an IBC into a tablet press works.

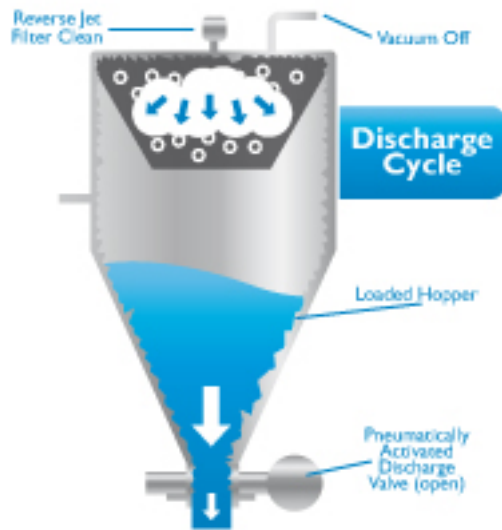
How Does Vacuum Conveying Work?



Vacuum conveying consists of two cycles; the loading cycle and the unloading (discharge) cycle. E

The Loading Cycle:

Material is sucked into the vacuum hopper by using a hand held vacuum wand o



The Unloading (Discharge) Cycle

Once the hopper is full (controlled by timer) vacuum is relieved and the discharge

The Uni-Vac Advantage

The Hanningfield **Uni-Vac** range of vacuum conveyors has been carefully designed

The conveyor benefits from an 'easy-clean' design, which allows the system to be easily dismantled for

This not only improves hygiene, but also decreases operational downtime by enabling faster cleaning tu

Hanningfield's knowledge in the application and manufacture of lift systems also enables them to provid

Importantly, Hanningfield are also able to remotely locate controls away from the vacuum conveyor itself

Hanningfield's knowledge also helps them to solve problems and improve processes. For example, Hanningfield

With a wealth of knowledge, Hanningfield are proud to be an expert in the design, manufacture and maintenance of

The **Uni-Vac** offers an excellent return on investment and has many advantages

Improved productivity:

- Increases throughput and efficiency compared with manual handling
- Reduces loss of material
- Minimal risk of contamination
- Easy to clean design for minimal operational downtime

Improved working environment:

- Reduces air-born dust
- Increased safety and hygiene through automation of pick-up and transfer
- Reduced operator fatigue

High return on investment:

- Increased productivity, allowing more material to be processed
- Less product loss, resulting in improved efficiency
- Minimal risk of contamination, reducing number of condemned batches

Find Your Vacuum Conveying Solution

Hanningfield have over 20 years experience in the design, manufacture and installation of vacuum conveying systems available in belt, cyclone, and auger

Each size caters for a different requirement, dependent upon your application. If you are at all unsure or need

To browse each solution, **Uni-Vac** select a size from the list below:

[V-03 Model](#) The capacity is 3 litres and the throughput can reach 300 kgs/hr. [More info](#)

[V-10 Model](#) The capacity is 10 litres and the throughput can reach 900 kgs/hr. [More Info](#)

[V-20 Model](#) The capacity is 20 litres and the throughput can reach 1200 kgs/hr. [More Info](#)

[V-30 Model](#) The capacity is 30 litres and the throughput can reach 2000 kgs/hr. [More Info](#)

[V-50 Model](#) The capacity is 50 litres and the throughput can reach 3000 kgs/hr. [More Info](#)

[V-100 Model](#) The capacity is 100 litres and the throughput can reach 4000 kgs/hr. [More Info](#)

Gallery

{gallery}univac{/gallery}

See it in Action!

Attention please. This is a large file and may take time on slow connections to load.

{flv}vacuumconveying |600|450|{/flv}

{/faq}

{faq inline/sliders}

IBC Loading using Vacuum Transfer

There are various methods for loading material into an IBC or bulk container.

Vacuum transfer into an IBC offers a reliable dust-tight transfer that is highly flexible and easily adapted

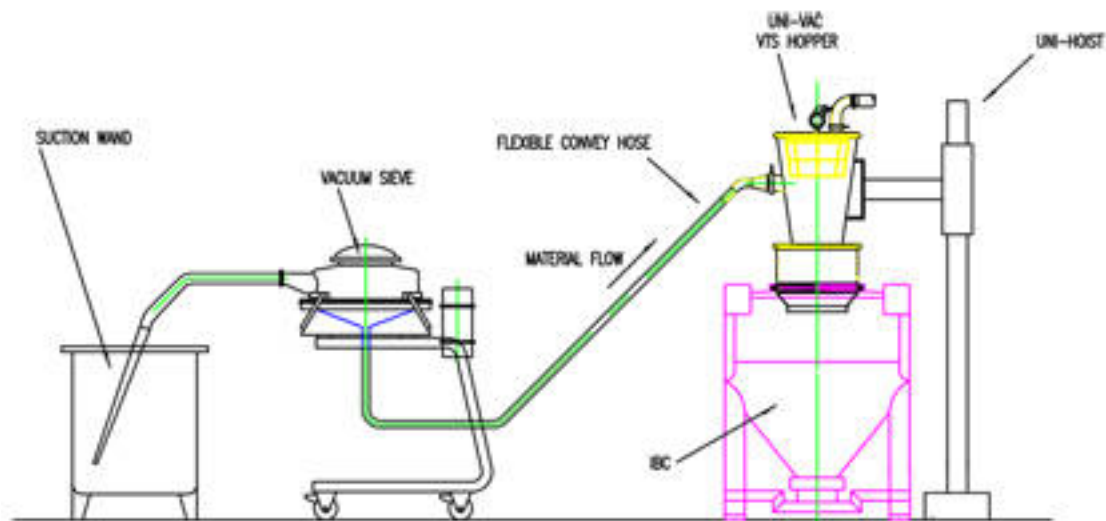


"Vacuum transfer is a simple, fully-contained method for loading an IBC"

To ensure the best possible powder transfer from the vacuum transfer hopper into the IBC, a dust-tight seal is required.

Material pick-up can be achieved in a variety of ways. The most common method is of material pick-up in a dust-tight container.

One major advantage is that other processes such as sieving or milling can be performed 'in-line'. This helps to maintain the integrity of the material.



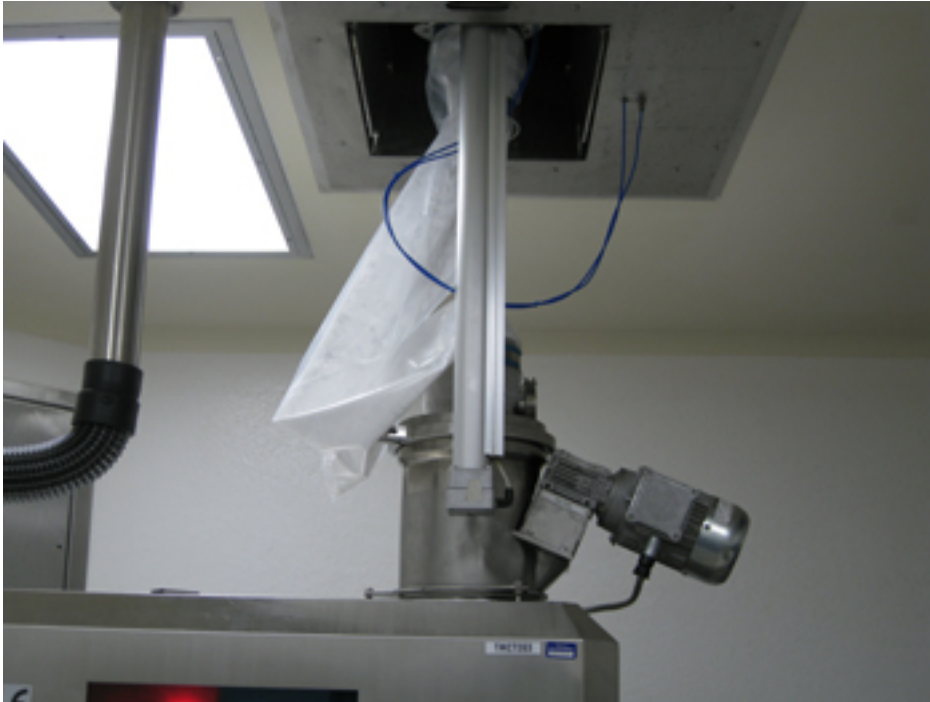
Using vacuum transfer, processes such as milling and sieving can be performed 'in-line'

Improved containment using vacuum transfer for IBC loading also means reduced waste which further c

Pharmaceutical Powder Loading

The loading of machines with powder can be a complicated and troublesome process.

The biggest issue is nearly always containment. How do you ensure that no powder is leaked or lost dur



A common problem occurs during the loading of fragile products, granulators, high shear systems, capsule

An alternative problem may occur when machines that are collected into a single line. This problem trans

Hanningfield have more than 20 years experience in pharmaceutical processing and have helped numer

For more information on [contact us](#) to solve this problem, please just

Milling & Conveying

The following video shows the simultaneous application of Hanningfield 'Uni-Mill' and 'Uni-Vac' machines


{flv}millingandconveying |600|450|{/flv}

{/faq}

Download Brochure:

{xtypo_download} 

[Vacuum Conveying Systems \(Uni-Vac Series\)](#) {/xtypo_download} **Case Study:**

{xtypo_download} 

[Vacuum Conveying](#) {/xtypo_download}

