Vacuum seed transport

Vacuum transport has been used for various products for decades. Generally with products in bulk, where the capacity is important and damaging plays no role. Continuous transport with high air speeds is the norm.

Other criteria apply with seed and seed pellets; the product may never be damaged and has to dosed exactly. Machines are not always continuously used, and it can be desirable to use the same vacuum unit at various machines.

To comply with this demand, compact vacuum units have been developed, which can easily be placed above a machine. This is also possible on a dosing container, which in turn can be placed above the supply to the machines.

The transport of the seeds and pellets will take place at a low air speed, where the buffer is continuously complemented. This naturally takes place without producing damages.

A proximity sensor in the funnel or container activates the vacuum unit to be able to maintain enough buffer.

In this set-up the dosing container fills a funnel of the machine below. A funnel has been made on the plateau, at each of the machines below.

The vacuum unit (possibly with a dosing container) can easily be driven on top of the plateau above a next machine.

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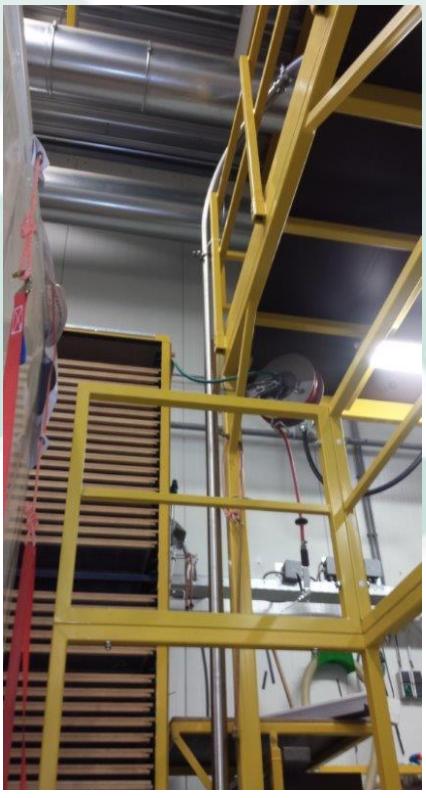
On the left: Example of a plateau with funnels above the machines.

On the right: There are several tubes at the plateau where the vacuum units can be connected. The tubes can suck the seed from every working area.

After processing, the seed flows into a small funnel, with a suction opening on the bottom that leads to the tube.



The seed will be sucked to the vacuum unit in pulse mode.

The seed is sucked by the stainless steel tube with wide curves to the next machine and processed further.