



OUR CONNECTION WITH... ...THE SEED INDUSTRY

You will encounter our mesh all over the world. In cars, ships, buildings, zoos, flower greenhouses, even in sports. In the section 'OUR CONNECTION WITH...' we spotlight a different mesh application every edition. In this, the fourth edition, you can learn more about mesh in sowing seed processing machines.

The rotary fluid bed dryer

Wire Weaving Dinxperlo's mesh plays an important role in moving seeds around. Where other machine builders use vibration to transport the bulk goods from A to B during the drying process, Hoopman equipment & engineering has created a continuous flow using a mesh-covered auger. In a closed drum made of wire mesh, a fluidized bed is created with specially perforated synthetic canvas, ensuring that the product is dried well, controlled and efficiently. Hoopman Key Account Manager & Project Engineer Mark Bretveld: "Vibration on an open bed results in loss of control of retention time of seeds during the process. Also, the product is damaged by the grinding effect of the so-called auger in trough. This is not what our clients want. In our rotary fluid bed dryer, the seed hovers continuously inside the drum, and the material is homogeneously dried and dedusted without damage or losses."

Processing plant

The drum with the wire mesh is the heart of the entire coating installation. Mark describes the machine as a mini factory - a processing plant where valuable seeds are treated: "In addition to the rotary fluid bed dryer, the machine also contains a platform, a coater - where the seeds receive their coating - controls and an exhaust mechanism. Because it's a closed system, we can accurately influence the duration and air temperature. Using the various compartments, we ensure

that every seed is handled homogeneously. That accuracy makes our product extremely unique and valuable to the seed industry."

Pioneering together

Wire Weaving Dinxperlo and Hoopman have been located close to each other for more than a century. As such, it comes as no surprise that Wire Weaving Dinxperlo has been producing sieves for Hoopman equipment & engineering for many decades now. Mark: "Wire Weaving Dinxperlo has a wide assortment and short lines of communication, allowing them to respond quickly and provide input. They always respond promptly to a problem or a question. If one of our clients' casings breaks, Dinxperlo is capable of acting instantly. That degree of reliability is important. So, if we need wire mesh in or around something, there's only one party we call: Wire Weaving Dinxperlo." When Hoopman equipment & engineering developed the rotary fluid bed dryer in 2006, Wire Weaving Dinxperlo again proved to be the logical partner. Mark: "Together with the engineers of Wire Weaving Dinxperlo, we have pioneered quite extensively with a fixed mesh sleeve that perfectly fits the auger blades. Any space would be disastrous for our installation, you see. It was an intense process. Together, we have looked for wear-resistant material and a good process, which we have further developed through practical application in recent years."



A large dryer with the mesh drum visible under the open hood

The mesh product

Today, our collaboration runs without a hitch. Hoopman produces the mechanical part of the auger and takes it to Dinxperlo. There, the wear-resistant duplex stainless steel mesh that was woven especially for Hoopman is in stock, in two mesh widths. Using a template, the Wire Weaving team welds the mesh sleeve to fit the auger. In Aalten, the Hoopman team carefully hangs the auger in the sleeve and tensions it. The sleeve that is produced is registered in Dinxperlo, allowing the company to act quickly if replacement is needed.



Key Account Manager & Project Engineer Mark Bretveld

The commissioning of a large installation in New Zealand



Our connection with...

Hoopman Equipment & Engineering ↔ Wire Weaving Dinxperlo

In Aalten, near to Dinxperlo, Hoopman equipment & engineering constructs a range of machines for the sowing seed sector. For many years, the majority of the team stood in the shoes of their target group while working as process technologists themselves. As such, they are capable of providing expert advice to clients. Being client-oriented, and providing quick service and good after sales together ensure that the machines made by Hoopman equipment & engineering are used all over the world for disinfecting, drying, (film) coating, priming, sorting, dedusting and transporting sowing seeds. All mesh applications in its machines, such as the rotary fluid bed dryer, have been produced by Dinxperlo for years. The Hoopman Group and its five subsidiaries, including Hoopman equipment & engineering, are ready to serve companies throughout the food industry chain.