



PACKAGING & FILLING



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DINNISSEN 
PROCESS TECHNOLOGY

PACKAGING & FILLING



Dinnissen packaging solutions are designed to handle and transport large quantities of goods or materials in a safe, efficient, and cost-effective manner. Our goal is to reduce your transportation and handling costs by optimizing space, minimizing waste, and ensuring safe and efficient storage and transportation.

Whether you use big bags (FIBC), small bags, drums, barrels, IBCs, silo's, hoppers or bulk wagons, Dinnissen has the answer to all bulk packaging questions and a solution for every challenge.



- Big Bag Filling**
- Big Bag Filling Stations
 - Automated Big Bag Filling Systems
 - High-Care Big Bag Filling Systems



- Small Bag Filling**
- Bag Filling Systems
 - Bag-in-box Systems
 - Repackaging Systems



- IBC and bulk wagon filling**
- Drum Filling Systems
 - Container Filling Systems
 - Truck Loading Systems



- System Integration**
- Complete processing lines
 - Optimization of product intake and outflow
 - Integration in your current processing line

BIG BAG FILLING



Dinnissen Big Bag Filling Systems have a modular design, they can be configured to suit nearly every challenge. From simple and robust to highly advanced, from 1 big bag per to 45 bags per hour. Depending on the product and the production process, a wide range of options can be added to our base models:

- Pneumatic grab and release system
- Weighing system with Dinnissen Feeder Valves
- Dust-free big bag connector
- Palletizing and Conveying Systems
- Stabilization and compacting by vibration
- Various possibilities for hygienic design
- Aeration or de-aeration system
- Vacuum and sealing options
- Height adjustment
- Mobile design

➤ Big Bag Filling Station

- Steel



Durable paint and coating on our steel Filling Stations.

➤ Big Bag Filling Station

- Mobile design
- Integrated sieve
- Stainless Steel



The Grab and Release System ensures that Big Bags are mounted safely and efficiently.

➤ Big Bag Filling Station

- Weighing System
- Grab & Release System
- Collision Protection
- Stainless Steel



Big Bag Filling System with automated pallet supply and Big Bag Conveying.

➤ Big Bag Filling Station

- Weighing System
- Grab & Release System
- Air Filtration
- Triple Seal Closure System
- Collision Protection
- Tailormade Operator Workspace



Big Bag Filling System with integrated pallet dispenser and palletizing system.

CHECK OUT OUR
BIG BAG FILLING VIDEO'S!



Robust and durable

Our machines are designed to last. There are many Dinnissen Big Bag Filling Systems in many different sectors that have been in use for decades and they are still going strong. Our designs are durable, even in filling processes that require resistance to chemicals.

Accurate and dust free

You don't want to waste material when filling big bags. That is why we designed an inflatable cuff. This system ensures an airtight connection between filling pipe and big bag and prevents product loss. It also ensures a clean and safe working environment. Moreover, this connection system allows us to integrate an accurate weighing system using our Feeder Valve technology.

Customized filling solutions

Operator ergonomics are key when selecting your big bag filling system. Therefore we offer tailor-made systems, so that your operators can fill big bags safely and efficiently. Combined with our experience in designing Big Bag palletizing and conveying systems, we can proudly say that we can take care of your entire filling process.

HIGH-CARE BIG BAG FILLING



Producers in the dairy and food sectors are facing increasingly higher demands on hygiene, cleanability and accessibility of their equipment. To meet these demands, Dinnissen has developed High-Care Big Bag Filling Systems.

The idea behind this solution is that the big bag does not make contact with the floor or pallets during the filling process. To achieve this, the big bag is filled in a High-Care area, which is separated from the Low-Care area by high speed doors. First the big bag has been filled and sealed. Then it is transported to Low-Care environment via a hygienic transport system. Here the big bag gets lifted up, and automatically put on a pallet. Capacities of up to 25 big bags per hour can be achieved.

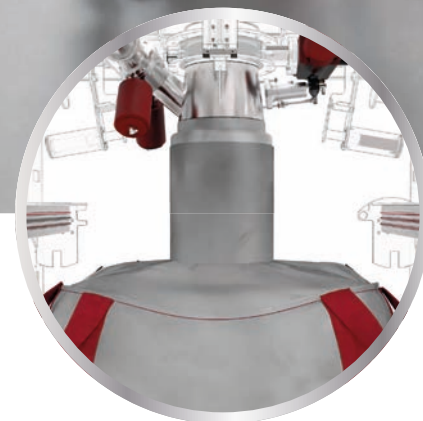
- Big Bag Filling Station**
- Hygienic design
 - Weighing System
 - Grab & Release System
 - Air Filtration
 - Triple Seal Closure System
 - Big Bag Lifting System
 - Big Bag Conveying System
 - Big Bag Compacting System
 - Big Bag Stabilizing System

Big Bag Transfer System

Big Bag Palletizer

Pallet Dispenser

Paper Dispenser



Airtight big bag connection and Automatic Triple Seal Closure System minimises contamination risks.



The only manual task is to connect a new big bag on to the first two hooks, the rest is automated.



Electrically operated mechanical lifting table, no hydraulics are used.



High/Medium/Low-Care Filling System during inhouse testing.

Hygienic design

We minimise the use of closed profiles, hollow bodies, bolted connections, plate to plate attachments and horizontal surfaces. This reduces product accumulation, making it both more hygienic and easier to clean. Components and machine parts are designed for maximum accessibility for cleaning, inspection and maintenance. Optional lifting systems are either electrically or pneumatically operated, and the Automatic Triple Seal Closure System eliminates contamination risks of manual closure.

High care zones

High care zones are physically segregated zones in which air quality is monitored and controlled. Packaging your products in a high-care zone minimises the risk of contamination in your products. Our technologies can ensure that your product does not come in contact with contaminated air or human hands before the packaging is fully sealed.

Gassing and dedusting

Our modular Big Bag Filling System can be fitted with options to optimize specific filling processes. For example, air purification using nitrogen in pregassing, inline gassing or postgassing design. Systems to extend product shelf life of perishable products. We can achieve rest oxygen values below 0,5%.

Food safety

Our designs are built using traceable stainless steel, and based on the EHEDG regulations to comply with HACCP and GMP quality assurance procedures. Different designs for different Atex zones are available. Furthermore, an end-of-line control sieve and/or metal detector can be equipped, as well as a sampling system.

CHECK OUT OUR
HIGH-CARE FILLING VIDEO!



BAG FILLING



Our range of bag filling solutions includes hygienic, low-volume bagging machines, bag-in-box systems and repackaging stations. These are designed to fill bags efficiently, safely and precise, without dust-emission. After filling, the bags can be sealed to prevent spillage and contamination. Once filled and sealed, Dinnissen can provide systems for further processing of the bags. Efficiency, accuracy, and hygiene are key factors in our solutions, to ensure that products are packaged securely and meet the required quality standards.



Bag filling

Operators can fill bags safely and efficiently with this manually operated system. It works by attaching a bag to an inflatable cuff, which forms an airtight seal that prevents any dust emission. Our Feeder Valve ensures that each bag is filled with the same precise preset amount. Once filled, the bag can be sealed and ready for further use.

Capacity: up to 60 bags per hour

Bag-in-box filling system

This system is used to fill bags, to seal them and to automatically label them. A vibration system makes sure that the bag is flat, after which it will be automatically transported from high-care to medium-care to low-care and placed in a box. These boxes can be labeled automatically as well.

Capacity: up to 60 boxes per hour

Repackaging system

Sometimes a solution is needed to change the packaging of materials. To achieve this, we combine our emptying systems with our filling systems. Whether you need to change from big bag to small bag, from IBC to FIBC or from palletized conveying to depalletized, Dinnissen can design and build the right solution for your challenge.

CHECK OUT OUR
BAG FILLING VIDEO'S!



IBC & BULK WAGON FILLING



There are many different types of container in use in the world of bulk solids packaging, from small IBCs to bulk trucks. In order to be able to build the best systems for these different types of packaging, Dinnissen has designed filling systems in modular form. These can be configured to suit your application perfectly. We have even designed systems for applications where drums and containers of various dimensions are used.



Accurately fill containers of different heights



This flexible filling system connects to drums fully automatically



High capacity filling system for bulk wagons.



Filling system designed for multiple different types of container



Modular design

The great advantage of Dinnissen Filling Systems is our customization. We identify the needs and requirements and create a system based on them. Our in-house engineering and production enable us to design systems to fit nearly every filling challenge. Every Dinnissen solution is built to last, to perform efficiently and to have great operator ergonomics.

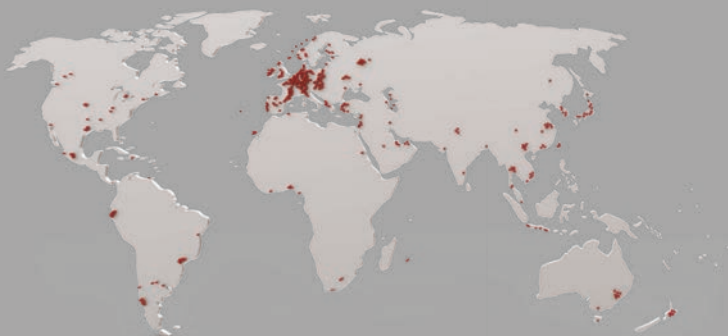
Hygienic filling systems

Producers that need to be absolutely sure about food safety and product quality can rely on Dinnissen systems. We have an excellent track record in sectors where producers have to deal with strict hygiene requirements. Furthermore, Dinnissen applies full tracability in the production processes. This enables us to provide material certificates for every part of the machines we build.

Options

- Custom design
- Height-adjustment
- Turntable to allow filling of multiple containers
- Feede Valve for accurate dosing
- Weighing system
- Hygienic design
- Roller conveyors
- Palletizing system

PACKAGING & FILLING



- ✓ In-house engineering, production and installation
 - ✓ Extensive service and testing facilities
- ✓ EG 1935/2004, ATEX-, GMP-, CE-, HACCP- en EHEDG
- ✓ ISO 9001, 14001, 27001 and 45001 certified
 - ✓ Over 75 years of experience

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