

# SIFTING & SCREENING



TRUSTED BY THE BEST

**DINNISSEN**   
PROCESS TECHNOLOGY

# SIFTING & SCREENING



Dinnissen Process Technology has been designing, building and testing a complete range of innovative sifting solutions for decades.

From centrifugal, drum and vibrating sifters to complete processing lines, our sifting & screening solutions are designed to sieve powders, grains and granules quickly and reliably with exactly the desired end result. Dinnissen sifting solutions are trusted by the world's top producers in the feed, food, pet food and chemical sectors.



**SYSTEM INTEGRATION**  
Complete processing line by Dinnissen

- ▼ Dima® Bag Emptying systems
- A→B Mechanical transport systems
- A→B Pneumatic conveying systems
- ⊗ Centrifugal Sifter
- ⊗ Big-Bag Filling systems



### Centrifugal Sifters

- classification
- screening
- separation



### Rotating Drum Sifters

- screening
- separation



### Vibrating Sifters

- screening
- separation



### System Integration

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

# CENTRIFUGAL SIFTERS



The Centrifugal Sifter is ideal for processing various amounts of product. Product is fed via an inlet system into the top of the machine, where rotating blades bring the product in motion. Thanks to the centrifugal forces, the product is distributed evenly over the entire sifter screen area, while the larger (unwanted) particles are effectively diverted to a separate outlet of the machine.

Dinnissen Centrifugal Sifters can be fitted with an extractable screen holder. This enables the screen holder to be taken out of the sifting chamber entirely, which makes it easier to inspect and clean the screen and inside of the machine.

> Inspection door

> Powder inlet

> Screen

> Screen holder

> Fine powder funnel

> Coarse powder funnel



Centrifugal Sifter - Steel



Centrifugal Sifter - Stainless Steel



Centrifugal Sifter with Screen Inspection System



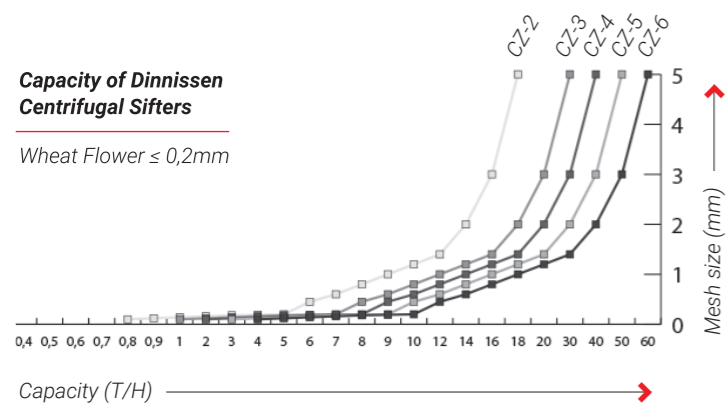
Centrifugal Sifter with Easy Access Wingdoors

## Features and options

- Material: steel / stainless steel
- Atex version available
- Inline pneumatic conveying
- Wingdoors
- Wide range of screens available
- Hygienic design & easy-to-clean
- Screen Inspection System for less downtime
- Customized design is possible
- Dinnissen System Integration

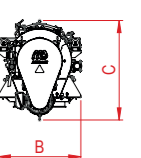
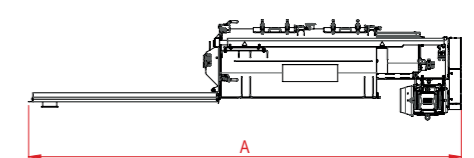
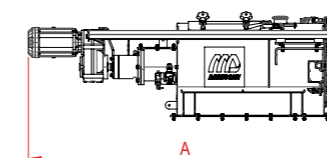
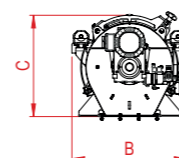
## Capacity of Dinnissen Centrifugal Sifters

Wheat Flour  $\leq 0,2\text{mm}$



Centrifugal Sifter				
Type	Screen Area (m2)	A (mm)	B (mm)	C (mm)
cz-2	0,68	2714	730	660
cz-3	0,79	3014	730	660
cz-4	1,05	3458	730	660
cz-5	1,38	3725	900	700
cz-6	2,20	4690	900	700

Centrifugal Sifter - Screen Inspection System				
Type	Screen Area (m2)	A (mm)	B (mm)	C (mm)
cz-2 mg	0,68	2714	730	660
cz-3 mg	0,79	3014	730	660
cz-4 mg	1,05	3458	730	660
cz-5 mg	1,38	3725	900	700
cz-6 mg	2,20	4690	900	700



# ROTATING DRUM AND VIBRATING SIFTERS



**Vibrating Sifters** can be used as a control sifter to filter out contaminants. It helps producers at critical control points (CCPs) within the production process. CCPs are essential to verify that food safety is being maintained. Dinnissen Vibrating Sifters ensure that contaminants do not get a chance to be processed into the final product and removes dust in the product flow.

**Rotating Drum Sifters** can be used for sifting grains and chunks. Its relatively low RPM of less than 1 meter per second prevents product damage and ensures compliance with the applicable ATEX guidelines.

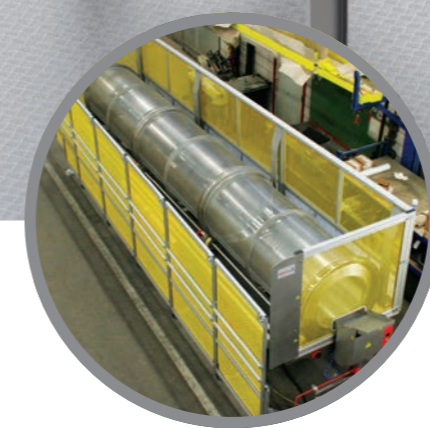
> Vibrating Sifter **PNEUMATIC INLINE**

> Rotating Drum Sifter **STAINLESS STEEL**

> Rotating Drum Sifter



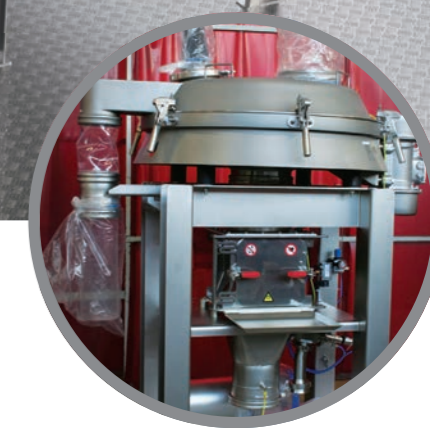
Rotary Drum Sifter



Extra-Large Rotary Drum Sifter



Inline Vibrating Sifter for pneumatic conveying



Vibrating Sifter with integrated magnet and sampling system

SYSTEM INTEGRATOR WITH MANUFACTURING SKILLS

## Vibrating Sifter

A vibrating sifter is equipped with an off-center motor that creates a vibratory motion. Once material is fed onto the screen at the top or center of the device, vibrating action causes the material to spread out and move across the screen surface. Smaller particles fall through the screen apertures or mesh holes, while larger particles remain on top. The vibratory action can help to break up agglomerations and promote the passage of particles through the screen. Separated materials are collected from different discharge points. For multi-deck vibrating sifters, each deck will have its own discharge point for the respective size fraction.

## Rotating Drum Sifter

A rotating drum sifter consists of a perforated cylindrical drum that is normally elevated at an angle at the feed end, which helps the material flow through it. Material is fed into the drum, which rotates around its axis. The speed of rotation can be adjusted according to the desired level of separation. As the drum rotates, the material inside tumbles and rolls. The perforations or screens allow smaller particles to pass through the holes of the drum while larger particles are retained inside. The size of these perforations can be varied to achieve the desired size separation, drums can even have multiple perforation sizes. The finer materials that fall through the screen are collected separately from the larger particles that are discharged at the end of the drum.

## The right type of sifter

Contact our experts to determine what the right type of sifter is for your specific application. Over 75 years of experience with sifting and screening in many different markets enable us to handle even the most difficult sifting challenges. Whether you need a single machine or a complete processing line, we are ready to design your perfect solution.

# SIFTING & SCREENING



- ✓ 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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