Drum sieve

MKZM
Efficient precleaning.
Reliable removal of coarse impurities.

Application
This drum sieve, which is patented in numerous countries, can be applied in many different ways for precleaning materials. It is successfully used in the reception of granular, mealy, and floury bulk materials in grain mills, bulk storage systems, and other plants in the food processing and feed manufacturing industries. The drum sieve separates coarse impurities such as pieces of straw, bag tapes, paper, pieces of wood, and corn (maize) leaves and cobs, etc. This protects downstream processing and conveying equipment from malfunctions and damage.

Design
The rugged, overhung screening drum is divided into an inlet and an outlet cylinder, made of sheet steel and provided with holes ranging from 10 to 60 mm. The screening drum is highly self-cleaning and is additionally supported in this function by a scraper brush. All components are installed inside an enclosed housing that is equipped with an aspiration connection.

The following design versions are available:
– Drive with slip-on gearing or free shaft end
– Inlet with or without dead box
– Wear protection:
  – without specific measures for non-abrasive materials
  – with anti-wear inserts in the material inlet and outlet (e.g. Creusabro or Rhino-Hyde) for abrasive materials

Mode of operation
The material to be screened is fed through the inlet channel to the inside of the screening drum and turned over. The grain drops through the screen perforations, and the coarse impurities are directed to the outlet by a guide screw. This ensues reliable separation of the coarse impurities.
High throughputs.
Low power requirement.

MKZM drum sieves.
In service in an English flour mill.

MKZM drum sieves.
In service in a Chinese flour mill.

- High throughputs
- Reliable separation of coarse impurities
- Proven, sturdy design
- Easy maintenance

Corn (maize)  Wheat  Barley  Rice  Oats  Soybeans
High versatility.
Easy maintenance.

Features
- High throughput up to 500 t/h grain per machine
- Sturdy design
- High degree of self-cleaning
- Reliable separation of coarse impurities
- Fast and easy screening drum changes
- Low space and power requirements

Example of a truck unloading facility
with MKZM drum sieve for precleaning and weighing system.

Example of a ship unloading facility
with conveying system to MKZM drum sieve
for precleaning and weighing system.
Minimized space and power requirements.
High throughputs.

### Throughput range according to hole size, in t/h

#### Examples:

<table>
<thead>
<tr>
<th>Material</th>
<th>MKZM 6375</th>
<th>MKZM 9510</th>
<th>MKZM 1211</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheat</td>
<td>25–100</td>
<td>100–200</td>
<td>200–500</td>
</tr>
<tr>
<td>Corn (maize)</td>
<td>25–90</td>
<td>90–180</td>
<td>180–450</td>
</tr>
<tr>
<td>Soybeans</td>
<td>25–100</td>
<td>100–200</td>
<td>200–500</td>
</tr>
<tr>
<td>Barley/oats</td>
<td>25–80</td>
<td>80–160</td>
<td>160–320</td>
</tr>
<tr>
<td>Cocoa beans</td>
<td>3–20</td>
<td>20–40</td>
<td>40–80</td>
</tr>
<tr>
<td>Rice</td>
<td>15–50</td>
<td>50–100</td>
<td>100–200</td>
</tr>
<tr>
<td>Finely ground grain up to 0.44 t/m³</td>
<td>5–15</td>
<td>15–30</td>
<td>30–60</td>
</tr>
<tr>
<td>Coarsely ground grain 0.55–0.60 t/m³</td>
<td>15–60</td>
<td>60–120</td>
<td>120–240</td>
</tr>
<tr>
<td>Pellets Ø 9 mm, 0.66 t/m³</td>
<td>20–90</td>
<td>90–180</td>
<td>180–360</td>
</tr>
</tbody>
</table>

#### Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Screening drum</th>
<th>Dimensions in mm</th>
<th>Air requirement m³/min</th>
<th>Motor kW</th>
<th>Approx. weights in kg</th>
<th>Volume sea-packed m³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ø  Length</td>
<td>A     B    C     D   E    F    G    H*</td>
<td></td>
<td></td>
<td>gross</td>
<td></td>
</tr>
<tr>
<td>MKZM 6375</td>
<td>630  778  1726  824  1242  750  400  1086  42  900  8</td>
<td>3.70</td>
<td>290  420  485</td>
<td>2.8</td>
<td></td>
<td></td>
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<tr>
<td>MKZM 9510</td>
<td>950  1078  2181  1130  1645  1000  450  1486  62  1200  12</td>
<td>0.55</td>
<td>470  680  765</td>
<td>6.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MKZM 1211</td>
<td>1250  1190  2469  1450  2045  1250  500  1746  90  1300  16</td>
<td>1.10</td>
<td>740  1020 1120</td>
<td>8.2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

H*: Space required for removing the screening drum