DRUM CLEANER WITH ASPIRATION - COMBINED
ZANIN F.LLI
Highly specialized in the production of cereal cleaners, started its activity in 1956 and very quickly became absolute leaders on the Italian market while attaining a solid reputation abroad. This Zanin F.Lli catalogue presenting its new range of machines, specific for each type of grain to be cleaned or graded/sorted, is the result of years of constant commitment and continuous research into cereal cleaning. On-going development and new devices ensure a continually better product yield.

ZANIN F.LLI
Is also engaged in the manufacture of a complete range of:
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DRIED STONES SEPARATOR
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INCLINED ASPIRATOR UNIT

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MOBILE COMBINED CLEANER
ROTARY CLEANER WITH ASPIRATION

TYPE OF TRAILERS
10 km/h
40 km/h
Roll-off version

CONSTRUCTION DETAILS

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PPR
ROTARY PRE-CLEANER

This pre-cleaner is designed for fast removal of light and rough impurities in the cereal. It is essential for the quality of the cereal that a pre-cleaner is installed at the dryer inlet. It homogenizes the product, preventing clogging and reducing energy consumption. The version with aspiration reduces the emission of dust into the atmosphere.

CONSTRUCTION
- Cowling and drum support uprights in pressed galvanized sheet
- Mobile lateral doors fitted with handle and lock
- Perforated carbon steel plate screens
- Manual drum inclination
- Nylon brushes for screen cleaning
- Fixed rotation speed
- Manually regulated conveyor for discharge of large impurities

01, 02, 03 - Installation examples
FUNCTION

The product enters by gravity into a cylindrical rotating drum with changeable perforated screens. The good product passes through pre-set holes, while the rough impurities come out at the end of drum.

The choice of screen perforation size depends on the product, the moisture content and the type of reject to separate.

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**OPTIONAL**

- Variable drum rotation speed
- Wooden rollers for screen cleaning
- Motorised drum inclination
- Wearproof polyethylene sheet
This machine removes light dust particles as well as separating by the rotating drum good quality grain from splits and trash. The rotary drum cleaner with aspiration is essential for cleaning cereals that have to be stocked for a long time (avoiding overheating which can be caused by chaff, husks, split grains etc). The final product will be healthier and have a pleasant aspect.

**CONSTRUCTION**
- Aspiration cowling with pressed galvanised panels
- Product inlet hopper
- Aspiration intake with vertical or horizontal positioning
- Airflow dampers
- Rotary drum connecting hopper
- Cowling and drum support uprights in pressed galvanised sheet
- Mobile lateral doors fitted with handle and lock
- Perforated carbon steel plate screens
- Nylon brushes for screen cleaning
- Fixed rotation speed
- Manually regulated conveyor for discharge of large impurities

**01, 02, 03 - Installation examples**

a) Aspiration
b) Rotary drum
The product enters by gravity into a motorised roller distributor and is evenly distributed over its whole width; the subsequent curtain descent of cereal encounters across airflow, which carries away light impurities (decanted by a cyclone or filter) and deposits a part of the heavier particles in a decanting hopper, equipped with a screw for reject expulsion. The dust-free grain enters a cylindrical rotating drum with interchangeable perforated screens. The first screen removes light impurities (sand, splits etc.), while the following screens allow the good grain to pass through pre-sized holes and the large impurities come out at the end of drum. The choice of screen perforation size depends upon the cereal and the type of reject to separate out.

**OPTIONAL**
- Variable drum rotation speed
- Wooden rollers for screen cleaning
- Motorised drum inclination
- Wearproof polyethylene sheet

**FUNCTION**

1) Product with impurities inlet  
2) Product outlet (By-Pass)  
3) Light rejects outlet  
4) Clean product outlet  
5) Clean product outlet  
6) Heavy rejects outlet  
7) Dust outlet  
8) Small impurities outlet

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<td>3</td>
<td>3</td>
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</tbody>
</table>

* Overall dimensions  
** Cleaning output with wheat, specific weight 0,78 t/m³ – 14% RH – Impurities 2%
CR
GRADER WITH OR WITHOUT ASPIRATION

The ROTARY GRADER separates grains according to their size. The output depends on the diameter of drum and the number of screens. The grading precision depends on the rotary drum speed and inclination.

CONSTRUCTION
- Cowling and drum support uprights in pressed galvanized sheet
- Mobile lateral doors fitted with handle and lock
- Perforated carbon steel plate screens
- Manual drum inclination in graduated scale
- Wooden rollers for screen cleaning
- Variable speed of rotation

01 - Application with aspiration and cyclone
02 - Application with aspiration and paddle conveyors
**FUNCTION**

The product enters by gravity into a cylindrical rotating drum with interchangeable perforated screens. The product passes through several sectors of screens with pre-sized holes. The drum is inclined in relation to the slope angle of the product, which falls onto appropriate separate hoppers. The choice of screen perforation size depends upon the dimension of product to be graded.

**OPTIONAL**
- Motorised drum inclination
- Window for product flow control
- Variable speed with inverter
- Telecamera for product flow control
- Control console

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<table>
<thead>
<tr>
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<td>16,75</td>
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<tr>
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<td>4</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>3</td>
<td>4</td>
<td>5</td>
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<tr>
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<td>1,1</td>
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<td>2,2</td>
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<td>3,0</td>
<td>4,0</td>
<td>5,5</td>
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</table>

* Overall dimensions
** Grading output with barley, specific weight 0,60 t/m³ - 16% RH - Impurities 2% (2 grades – over 2.5 mm)
PA-I
INCLINED ASPIRATION UNIT

This aspirator is designed to remove light impurities from the grain. It can be installed wherever it is most useful and is essential for cleaning cereals. The machine can be installed quickly and easily.

CONSTRUCTION

- Aspiration cowling with pressed galvanized panels
- Aspiration intake
- Airflow dampers

01 - Application on elevator
02 - Application on silo entrance
FUNCTION

The grain enters by gravity and is evenly distributed over the whole width. The grain descending as a curtain encounters a cross airflow, which takes up the lighter parts, which are then decanted in a cyclone or filter. Airflow is regulated by the “false air” A.

1) Grain with impurities inlet
2) Clean product outlet
3) Grain with fine impurities - dust outlet

** Overall dimensions
** Cleaning output with wheat, specific weight 0,78 t/m³ – 14% RH – Impurities 2%
This pre-cleaner with aspiration is designed to remove dust and light impurities from the grain. The machine is installed only for just cleaning the product of dust or light impurities and it’s essential for cleaning cereals. This machine can be installed quickly and easily.

**CONSTRUCTION**
- Aspiration cowling with pressed galvanized panels
- Aspiration intake
- Airflow dampers

**Installation Options**
- 01 - Installation on by-pass outlet
- 02 - Installation on elevator
- 03 - Installation on screw
- 04 - Entry reduction cone
FUNCTION

The grain enters by gravity and is evenly distributed over the whole width. The grain descending as a curtain encounters a cross airflow, which takes up the lighter parts, which are then decanted by a cyclone or filter. The airflow through the product is regulated by the valve A and the total airflow is adjusted by “false air” B.

- Inlet adapter bushing
- Outlet adapter bushing
PA-TD
ASPIRATOR CLEANER WITH DECANTER

The function of this aspiration cleaner with decanter is to remove light dust. The machine is installed on processing machines for cleaning product from dust or light impurities. It’s possible setting up on the inlet opening, as optional, a magnetic separator to remove metallic parts. It’s essential for cleaning cereals.

CONSTRUCTION

- Aspiration cowling with pressed galvanized steel panels
- Aspiration intake
- Airflow dampers
The product enters by gravity into a motorised roller distributor and is evenly distributed over its whole width; the subsequent curtain descent of cereal encounters a cross airflow, which carries away light impurities (decanted by a cyclone or filter) and deposits a part of the heavier particles in a decanting hopper, from that it will exit by gravity.

FUNCTION

1) Product with impurities inlet
2) Clean product outlet
3) Product with fine impurities - dust outlet

MODEL

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<th>PA 40 TD</th>
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<td>10</td>
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<td>Aspiration motor power - kW</td>
<td>0,55</td>
<td>0,75</td>
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<td>Auger motor power - kW</td>
<td>0,18</td>
<td>0,22</td>
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<tr>
<td>Length - mm*</td>
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<td>1670</td>
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<td>Volume - m³</td>
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<td>1,6</td>
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</table>

* Overall dimensions
** Cleaning output with wheat, specific weight 0,78 t/m³ – 14% RH – Impurities 2%

OPTIONAL

- Outlet hopper
- Support legs
- Magnetic separator
PA-D
ASPIRATOR CLEANER WITH DECANTER

This machine with aspiration removes light particles and straw present in the product. The machine is installed after the dryer or in the receiving area for just cleaning the product of dust or light impurities. It’s essential for cleaning cereals that have to be stored, avoiding overheating which can be caused by chaff, husks, split grains etc.

CONSTRUCTION
- Aspiration cowling with pressed galvanized panels
- Product inlet hopper
- Aspiration intake with vertical and horizontal positioning
- Airflow dampers

01, 02 - Installation detail
FUNCTION

The product enters by gravity into a motorised roller distributor and is evenly distributed over its whole width; the subsequent curtain descent of cereal encounters a cross airflow, which carries away light impurities and deposits a part of the heavier particles in a decanting hopper, equipped with a screw for reject expulsion. The light impurities are decanted by a cyclone or filter.

Optional

- Outlet hopper

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<td>180</td>
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<td>5,5</td>
<td>11</td>
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<tr>
<td>Auger motor power - kW</td>
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<td>6,0</td>
<td>7,5</td>
<td>12,2</td>
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</tbody>
</table>

* Overall dimensions
** Cleaning output with wheat, specific weight 0,78 t/m³ – 14% RH – Impurities 2%
PA-DTR
DRUM CLEANER WITH DECANTER

This machine with aspiration removes in a short time light and large particles and straw present in the product. The machine is installed before a dryer, in the receiving area or after drying. It's essential for cleaning cereals that have to be stored, before prevents clogging in the dryer, after reduces dusts in the grain to be stored, avoiding overheating which can be caused by chaff, husks, split grains etc.

CONSTRUCTION
- Aspiration cowling with pressed galvanized panels
- Product inlet hopper
- Aspiration intake with vertical or horizontal positioning
- Airflow dampers

01 - Drum detail with product
02 - Installation detail
**FUNCTION**

The product enters by gravity into a motorised roller distributor and is evenly distributed over its whole width; the subsequent curtain descent of cereal passes through a rotary drum, in a fixed mesh. Large impurities (rapier – stones – etc.) remain outside of the drum and are rejected by a special hopper. Cereal encounters a cross airflow, which carries away light impurities and deposits a part of the heavier particles in a decanting hopper, equipped with a screw for reject expulsion. The light impurities are decanted by a cyclone or filter.

1) Product with impurities inlet  
2) Clean product outlet  
3) Large impurities outlet  
4) Dust outlet  
5) Fine impurities outlet

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**MODELLO**

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</table>

* Overall dimensions  
** Pre-cleaning output with wheat, specific weight 0.78 t/m³ – 14% RH – Impurities 2%
TS
CLEANING MACHINE FOR ROUGH PRODUCT

This cleaner removes in a short time the rough material present in cereals. The machine is used before a cleaning plant or in ports or railway stations.

CONSTRUCTION
- Cowling and drum support uprights in pressed galvanised thick sheet
- Mobile frontal door with nuts and bolts
- Painted carbon steel plate screens
- Nylon brushes for screen cleaning
- Extraction screw
- Aspiration intake

01
02
01. 02 - Drum detail
FUNCTION

The product enters by gravity into a cylindrical rotary drum into a fix screen. The good product pass through the screen and the big impurities go out on the end of drum.

The choice of screen has to be taken in consideration of product.

OPTIONAL

- Wooden rollers for screen cleaning
- Wearproof polyethylene sheet
- Anti deflagration door
- Electrical panel

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<tr>
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<td>8,6</td>
</tr>
</tbody>
</table>

* Overall dimensions
** Cleaning output with wheat, specific weight 0,78 t/m³ – 14% RH – Impurities 2%
COMBI
SUITABLES FOR VEHICLES

The function of the Combi Cleaner is to remove in a short time fine and rough impurities present in the cereal. It can be installed on a trailer easily to transport (mobile version 40 km/h and version 10 km/h only for internal use) is used before product stocking or shipping.

CONSTRUCTION

- Cowling and drum support uprights in pressed galvanized sheet
- Mobile lateral doors fitted with handle and lock
- Perforated carbon steel plate screens
- Manual drum inclination
- Nylon brushes for screen cleaning
- Fixed rotation speed
- Extraction screw
- Suction intake

01 - Detail of cyclone
02 - Machine on work
03 - Inspection door
04 - Electrical panel
05 - Transport machine configuration
**FUNCTION**

The product with the impurities is loaded through a tubular screw and enters in the rotating drum. The first screens remove light waste, the following screens share the good product. At the end of the screens is eliminated the heavy waste. Depending on the type of product, more smooth or rough product, drum inclination can be changed for optimize the job of all screens. For each screen, an adjustment system allows to create an uniform distribution of the product, which is crossed from airflow and taking away lighter dust from it. The clean product is conveyed to the screw n. 2, connected to the inclined tubular screw. It’s possible sending the byproduct to screw n. 3, connected to vertical screw. Heavier dust decants and is conveyed to screw n. 4, connected to the vertical screw. The airflow is directed to a cyclone to remove lighter dust. Heavy waste is sent to conveying screw n. 4 or outside by the special slide.

**MODEL**

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<th>MODEL</th>
<th>COMBI 4/6</th>
<th>COMBI 4/9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-cleaning output - t/h</td>
<td>30</td>
<td>60</td>
</tr>
<tr>
<td>Cleaning output - t/h</td>
<td>20</td>
<td>50</td>
</tr>
<tr>
<td>Grading output - t/h</td>
<td>2</td>
<td>8</td>
</tr>
<tr>
<td>Sieve area - m²</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>N° screens</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Drum motor power - kW</td>
<td>1.1</td>
<td>3</td>
</tr>
<tr>
<td>Screw motor power - kW</td>
<td>6.65</td>
<td>8.95</td>
</tr>
<tr>
<td>Ventilation power - kW</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Length - mm</td>
<td>5150</td>
<td>6350</td>
</tr>
<tr>
<td>Width - mm</td>
<td>2310</td>
<td>2400</td>
</tr>
<tr>
<td>Height - mm</td>
<td>3270</td>
<td>3565</td>
</tr>
<tr>
<td>Weight empty - kg</td>
<td>1960</td>
<td>2360</td>
</tr>
</tbody>
</table>

- **output with wheat, specific weight 0.78 t/m³ – RH 20% - 2% impurities**
- **cleaning output (1st fine sieve) with wheat, specific weight 0.78 t/m³ \ RH 14% - 2% Impurities**
- **output with barley, specific weight 0.6 t/m³ – RH 14%**
- **(2 products threshold 2.5 mm)**

**OPTIONAL**

- Trailer
- Variable rotary drum speed
- Wooden rollers for screen cleaning
- Wearproof polyethylene sheet
- Electrical panel
SA
AIR SEPARATOR

The separator permits to separate good product from by-products and/or waste, confirm of different spec. weights.

CONSTRUCTION
- Cowling in pressed galvanized sheet
- Regulation airflow shutter
- Shutter for product selection
- Unloading hopper

01 - Airflow outlet
02 - Side view
03 - Airflow intake
04 - Unloading hoppers
05 - Unloading from hoppers
The product enters by gravity in a rotating distributor and is distributed uniformly of the entire width. The product is invested by a transversal airflow, and fall more or less far-off in the unloading hoppers on the basis of spec. weight. The machine works free blowing.

**FUNCTION**

**MODEL SA 60-100**
- 1 Product with impurities inlet
- 2 I separation outlet
- 3 II separation outlet
- 4 III separation outlet
- 5 IV separation outlet
- 6 V separation outlet
- 7 VI separation outlet
- 8 VII separation outlet
- 9 VIII separation outlet
- 10 Dust exit

**MODEL SA 150-200**
- 1 Product with impurities inlet
- 2 I separation outlet
- 3 II separation outlet
- 4 III separation outlet
- 5 IV separation outlet
- 6 Dust exit

**MODEL**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SA 60</th>
<th>SA 100</th>
<th>SA 150</th>
<th>SA 200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output - t/h *</td>
<td>1,2</td>
<td>3</td>
<td>5</td>
<td>12</td>
</tr>
<tr>
<td>Roller motor power - kW</td>
<td>0,25</td>
<td>0,25</td>
<td>0,25</td>
<td>0,25</td>
</tr>
<tr>
<td>Fan power - kW</td>
<td>1,5</td>
<td>3</td>
<td>4</td>
<td>3x1,5</td>
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<tr>
<td>Length - mm</td>
<td>2837</td>
<td>2840</td>
<td>2340</td>
<td>2335</td>
</tr>
<tr>
<td>Width - mm</td>
<td>830</td>
<td>1230</td>
<td>2090</td>
<td>2580</td>
</tr>
<tr>
<td>Height - mm</td>
<td>2320</td>
<td>2320</td>
<td>2320</td>
<td>2320</td>
</tr>
<tr>
<td>Weight empty - kg</td>
<td>380</td>
<td>500</td>
<td>800</td>
<td>900</td>
</tr>
</tbody>
</table>

* output with wheat, specific weight 0,78 t/m$^3$ - RH 14% - 2% impurities.

**OPTIONAL**
- Moving wheels
- Electrical panel
- Inverter
- Collecting case
MOBILE COMBINED CLEANER
ROTARY CLEANER WITH ASPIRATION

Depending on your needs it’s possible to realize machines obtained from combination of specific cleaner models, mounted on a trailer for handling or street transport.

CONSTRUCTION
- Painted steel trailer
- Cowling and drum support uprights in pressed galvanized sheet
- Mobile lateral doors fitted with handle and lock
- Perforated carbon steel plate screens
- Manual drum inclination
- Nylon brushes for screen cleaning
- Fixed rotation speed
- Control conveyor with manual adjustment for large impurities outlet
- Aspiration cowling with pressed galvanized steel panels
- Suction intake
- Airflow dampers

01 - Cyclone detail
02 - Control console detail
TYPE OF TRAILERS

The structures of trailers are based on the model of machine to be transported; the material used is hot galvanized steel or painted steel. Generally, the trailer is equipped with stabilizers.

**Trailer for internal use**

Trailer for internal use, complete with single wheels, manual screw stabilizers and rudder with eyelet.

Tubular steel construction hot galvanized or painted.

**Street trailer approved for traffic circulation**

Trailer approved for traffic circulation, complete with twin wheels, manual screw stabilizers, drum brakes and rudder on truck tow hook.

Tubular steel construction hot galvanized or painted.

**Roll-off version (can be used also in a fix version).**

Tubular steel frame with manual screw stabilizers.

Tubular steel construction hot galvanized or painted.
CONSTRUCTION DETAILS

01 - Nylon brushes for screens cleaning
02 - Control levers
03 - Wooden rollers for screen cleaning
04 - Buckets
05 - Carbon steel plate screens
06 - Fan connection hopper
07 - Safety roops
08 - Airflow dampers
09 - Waste screw outlet PA D
10 - Drum inclination regulation
11 - Product inlet hopper
12 - Control conveyor with manual adjustment for large impurities outlet
ACCESSORIES AND OPTIONALS

PRODUCT INLET

01

02

03

04

05

06

07

08

09

10

11

12

13

14

15

16

17
01 - Brake
02 - Iron bend
03 - Reduction cone
04 - 45° self braking joint
05 - 2 ways valve
06 - Magnetic separator
07 - Aspiration connections
08 - Servo motor for opening/closing shutter
09 - Sampler
10 - Hopper
11 - Charging inlet with electrical by-pass
12 - Adjusted legs
13 - Platforms and ladders
14 - Discharge hoppers
15 - Bag spout
16 - Discharge shutter with closing
17 - Discharge hoppers with by-pass
18 - Self-cleaning filter
19 - Cyclones
20 - Motovariator
21 - Inverter
22 - Motorised drum inclination
23 - Control console
24 - Touch screen controller: it indicates the screen to install and adjust automatically air shutters inclination and position
25 - Chain conveyor
26 - Auger
27 - Blade conveyor
28 - Pneumatic conveyor
29 - Belt conveyor
SIZE OF PROCESSED CEREALS

LIST WITH SEEDS TO CLEAN

- BARLEY
- BEANS
- BEET
- BROAD BEAN
- BUCKWHEAT
- CABBAGE
- CANARY GRASS
- CARROTS
- CHICK
- CLOVER
- COCOA
- COFFEE
- CORN
- COURGETTES
- FIELD BEAN
- HEMP
- LENTILS
- LINSEED
- LUPIN
- MUSTARD
- OAT
- ONION
- PANIC
- PEAS
- RADISH
- RAPE
- RICE
- RYE
- RYEGRASS
- SESAME
- SOJA
- SORGHUM
- SUNFLOWER
- VETCH
- WHEAT

PERSONALIZED PLANTS
SCREENS CHOICE DEPENDING ON SEED

WHAT FORM HAS THE SEED TO BE WORKED?

a Round
b Elliptical
c Stretched elliptical
d Indefinite form

WHICH SIZE?

Type of seed
Size

1 Length
2 Width
3 Thickness

TYPE OF USED SCREEN

Wavy mesh
Round holes
Square holes
Slot holes
Triangular holes
Ashlar holes