

# SYNMEC

## TQSF-125 Destoner

Professional stone removing from your seed or grain

www.synmec.com

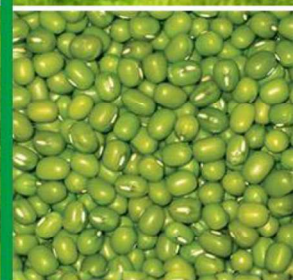
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# SYNMEC

The world top Manufacturer for Grain Cleaning Solutions  
Adviser for Seed Processing



# TQSF-125 Destoner



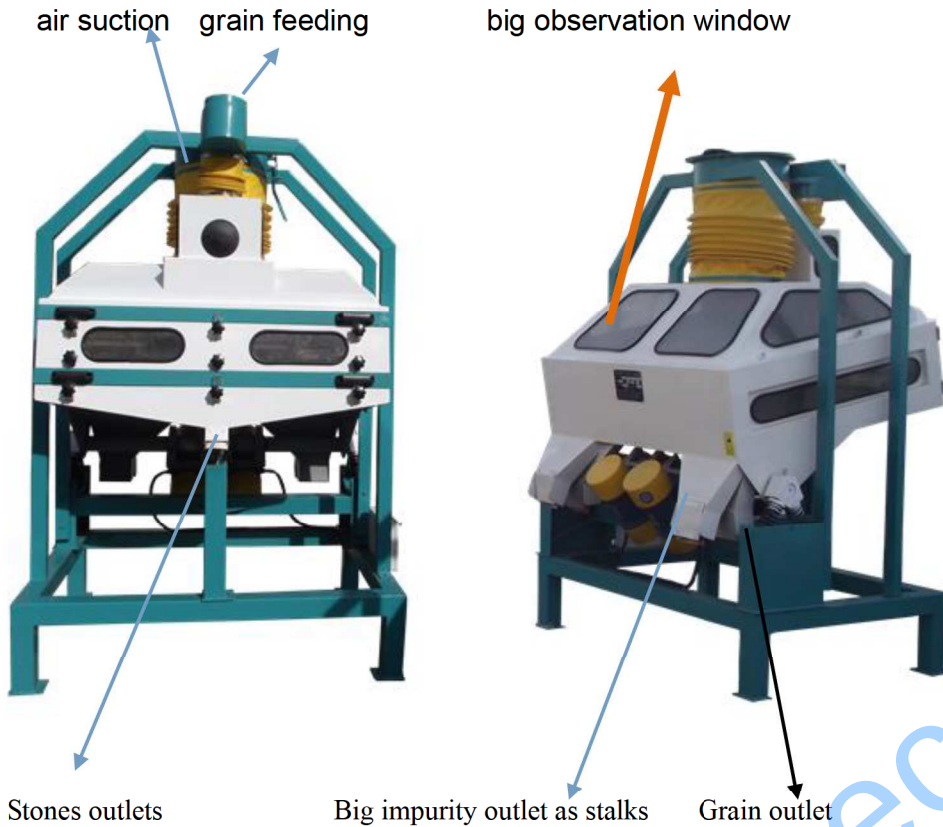
Parameter reference:

| Model    | Capacity      | Vibration power | Air blower power | Air volume                 | Dimension (L*W*H) | Weight |
|----------|---------------|-----------------|------------------|----------------------------|-------------------|--------|
| TQSF-125 | 12500 Kg/hour | 0.37X2 Kw       | 5.5 Kw           | 12000 M <sup>3</sup> /hour | 1460x1500x1940 mm | 580 Kg |

Fuction:

TQSF Destoner is applied for efficient separation of stones, pebbles, glass, and other high-density impurities from grain, according to the difference in specific weight. It is widely used for wheat, maize, barley, oat, etc.

## Introduction:



Please remove the yellow fixing plates when Destoner working. The fixing plates are made to protect machine during transportation



## Working principle:

The working table is covered with a woven wire mesh bed, through which air blows from below. Heavy impurities such as stones are not lifted by the air cushion and stay on the mesh bed. The vibratory motion of the table causes this heavy material to be transported to the beginning of the regulating plate at the far end of the machine. Under this plate, the air flows in an opposite direction to the movement of grain on the working table. Due to this direction of air motion stones are separated from the product and moved to the stones outlet.

Inside the vibrating body, there are two sets layers of drawer type sieves.

Inclination of sieve surface:  $5^{\circ}$  -  $9^{\circ}$



Through-hole handle to fasten sieves

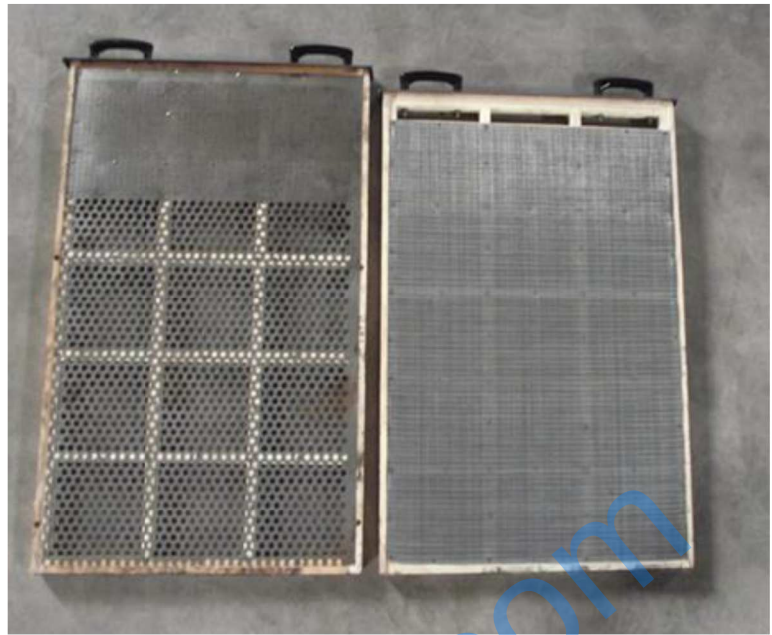


## TQSF Destoner sieves

TQSF Destoner top layer sieve normally is made of 2 sections.

For TQSF-100 model and TQSF-125 model Destoner top layer sieve can choose 3 sections.

(Depends on raw material and capacity required)



top layer sieve ( 2 sections)

bottom layer sieve



top layer sieve ( 3 sections)



bottom layer sieve

### Top layer sieve:

First section is equipped with weaving mesh that made of spring steel, and mainly used to scattering grain and avoid grain from leakage.

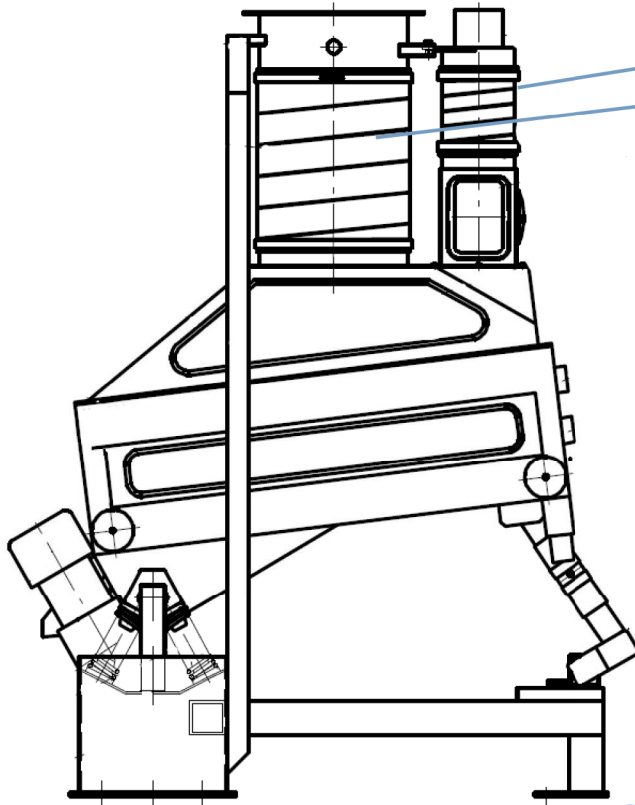
Second section is equipped with perforated sieve plate, and mainly for distributing air evenly.

Third section is equipped with perforated sieve plate, and mainly used for grading and collecting light impurities. If top layer sieve only has 2 sections, it will leave out second section sieve for air distributing.

Bottom layer sieve is weaving meshed made of spring steel. Its main function is to remove the sand, stone and clods.



## Machine Details



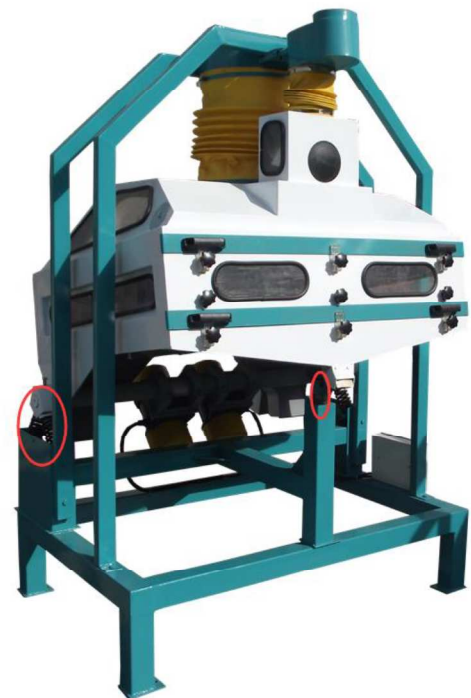
Grain inlet hopper and air pipe are soft connectors, which protect air flow from leakage.



Adjustable supporting rod is at the front end

Two vibrating motors are screwed on the shaft side by side at the rear part of vibrating body.

Two vibrating motors rotate in opposite directions to drive the vibrating body do reciprocation linear movement.



There are two sets of springs (each group forms a splay shape) at rear end.

These two sets springs and adjustable rod make synchronous reciprocation movement when vibrating motor works.

## Machine Adjustment

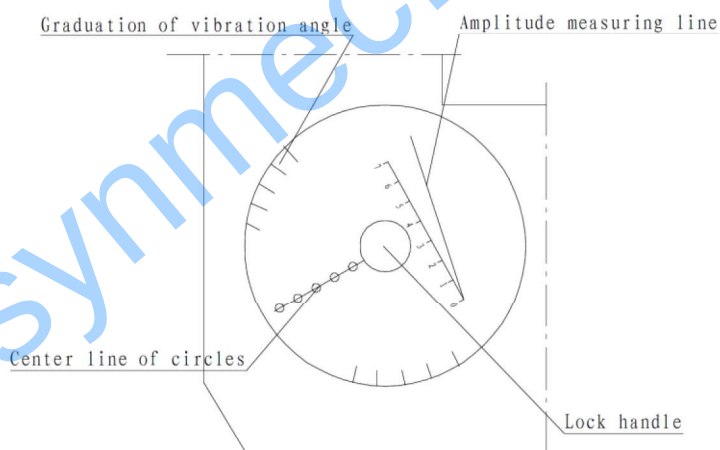
There is an adjustable plate which is used to control the grain feeding amount.



There are two baffle plates for scattering the grain.



You can adjust the air volume by handle.  
There is reading indication for reference.

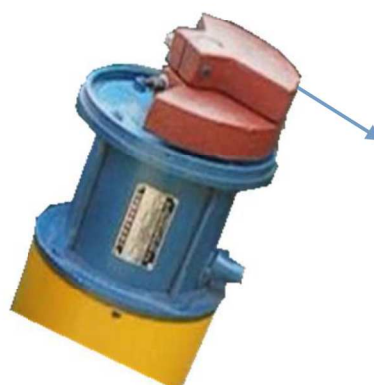
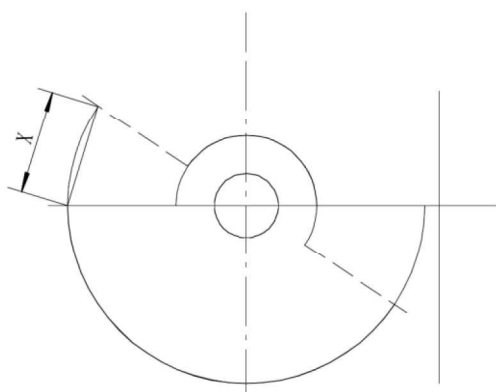


Vibration-indicating disc

Destoner vibration direction angle normally is set  $30^\circ$  before leaving factory.

The expected cleaning effect with amplitude is 4~5 mm.

You can read the amplitude, and adjust eccentric lumps on vibrating motor to reach desired effect.



Adjust two eccentric lumps  
overlapping area to change the  
amplitude.

## Destoner photos



Full set Destoner system (Bucket elevator and cyclone dust separator are optional.)

### Cyclone dust separator

It is used to collect dust and light impurity and offer cleaning working environment. That is eco-friendly design.

### Bucket elevator

- For raw grain feeding
- Mobile type





We are the best choice for you!

### Factory view



### We have professional manufacturing equipment!

| Drilling and milling machine                                                        | CNC lathe                                                                           | Laser cutting machine                                                                 |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |
| Plasma cutting machine                                                              | Bending machine                                                                     | Shearing machine                                                                      |
|  |  |  |



**We can provide over sea machine assembly and staff training services!**



**We have strong production capacity!**



One time produce 6 sets 5XZD-15AC



One time produce 33 sets QSX-85 Destoner



One time produce 40 sets 5XZ-6 Gravity Separator



One time produce 30 sets 5BY-5B Seed Coating Machine



# Healthy Grain, Pretty Beans, Strong Seed. SYNMEC

We serve for



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