

SYNMEC

5XZ-3B GRAVITY SEPARATOR

To separate materials that in similar size but different in specific weight

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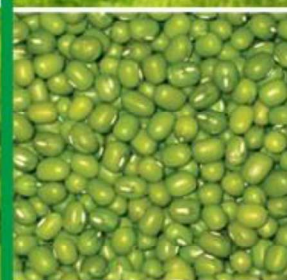
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VERITAS



SYNMEC

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



Application:

5XZ-3A gravity separator is used to separate seed and grain with same size but difference in specific weight.

To remove partially eaten, immature, insect damaged sick seed and moldy seed from your grain or beans.

Widely used in seed and grain industry, with best performance for wheat, maize, corn and others.

Specification:

Model	5XZ-3B
Capacity (count by wheat)	3000 kg/h
Power	4.25 KW
Dimension of sieve	2000*325 mm
Amplitude	4 mm
Purity	>98%
Percentage of broken seed	<0.2%
Dimension(mm)	4000*1800*2750 mm
Weight(kg)	1100 kg



Motor Details:

Vibration Motor:

YZU-4-6L, 0.25kw, 960r/min

Air Blower Motor:

4-72, 3KW, 2900r/min,
2664-5268m³/h

Motor for grain return groove:

YS-7114, 0.25KW, 1400 r/min.

Motor for Elevator:

Y90S-6, 0.75KW, 960r/min.

Introduction of working process :

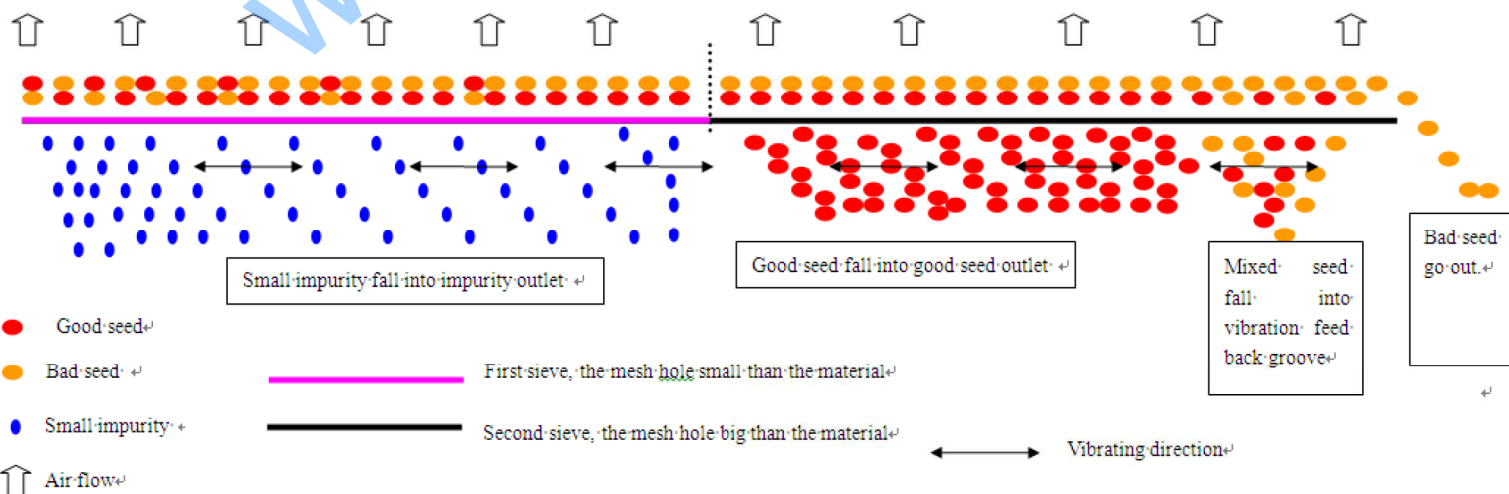
By air aspiration and sieve oscillation, seed is fluidized and stratified .

Heavy seed sink into the sieve bottom layer, while light seed suspend to the top layer.

After stratified, seed go forward to the discharging part.

Bottom layer good seed and mixture quality seed fall through the sieve discharge from different outlets successively. Top light seed with bad quality was discharge directly

Mixed quality seed in the middle layer fall through sieves and return back by vibrate feeding groove.





Inside Sieve Size



Vertical air chamber

The special shape of the air chamber makes air flows more evenly and uniformly, better for light impurity suction and stratifying of seed.

Advantage of 5XZ-3B Gravity Separator on process wheat:

Our 5XZ-3B Gravity Separator can remove all bad wheat, wild oats, wild barley and aegilops tauschii from the wheat. this is the unique machine which can achieve this function.



bad wheat



wild oats

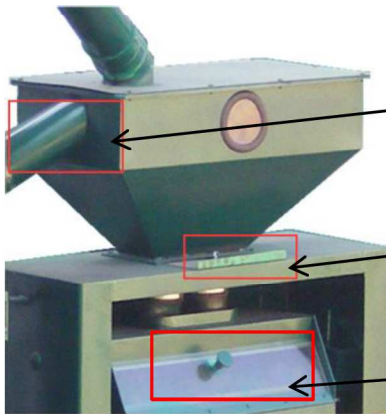


wild barley



aegilops tauschii

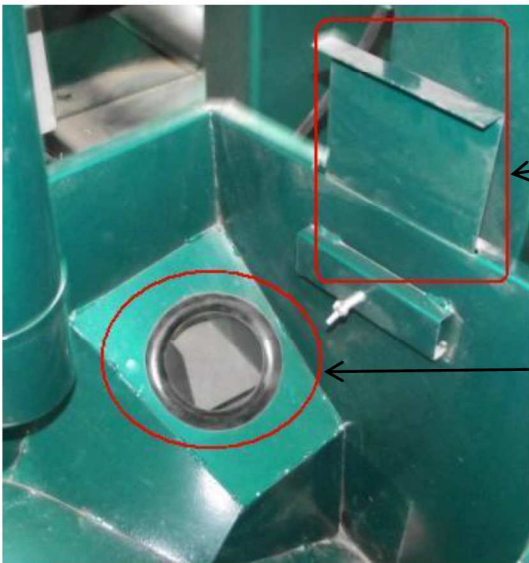
Adjustment:



When the grain over-feeding into the hopper, there is an over flow pipe makes the grain back to the inlet of bucket elevator.

The Insert Plate under Inlet Hopper can control the feeding volume.

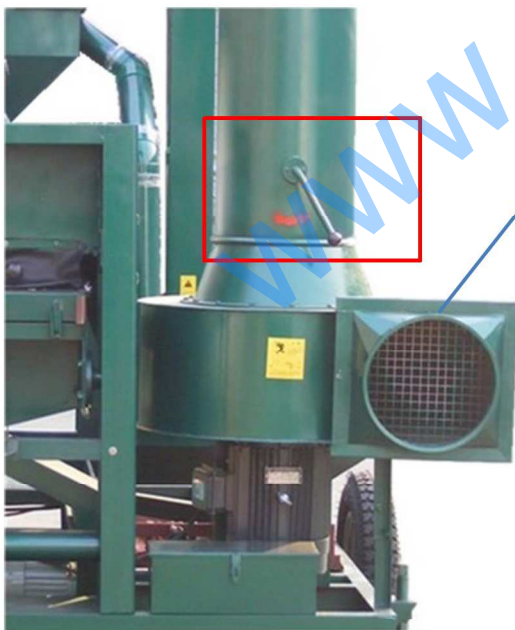
Inside have a buffer plate, which ensure grain fall down to sieves evenly.



The elevator hopper adjusting plate is used to adjust grain feeding speed.

And the observe window is used to keep watching the volume of return mixed grain to make them flow smoothly.

Air Blower: 3.6A, 3KW.



Air Adjusting handle to control the air volume produced from air blower.

16 air adjusting baffle plates will be adjusted according to selection results to control stratified of heavy and light seeds.

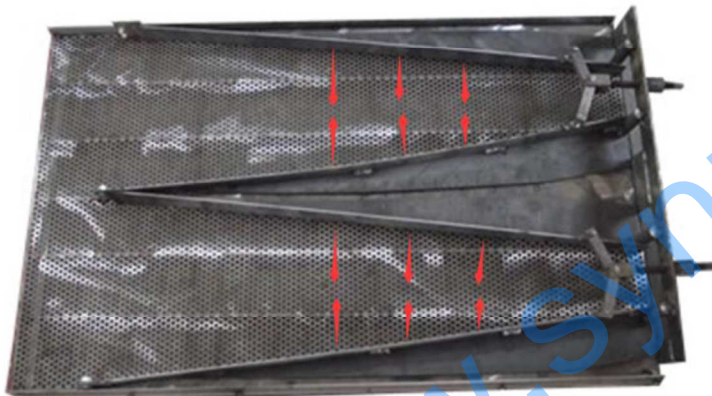


This is the inside sieve set.



The front sieve of Gravity Separator.

By the air aspiration and sieve oscillation, grain seed will finish layering on front sieve, then seed will go forward to back sieve for separation.



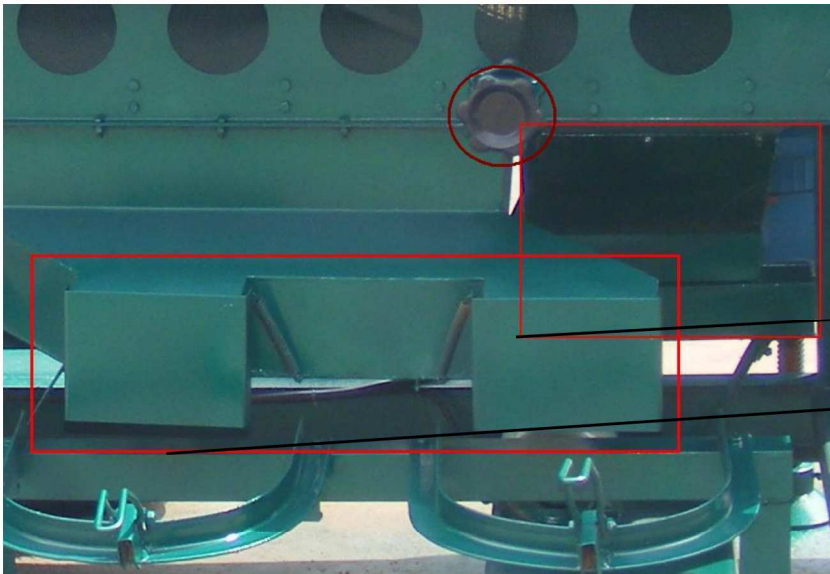
The back sieve of Gravity Separator.

The triangle gap can be adjusted according to different material.

Bad seed will be separated from good seed and discharge from different outlet.



The two black adjusting handles is end of back sieve, it is used to adjust the triangle gap size, lead to control the separation of mixed grain and light grains while control the flow volume of light grains.



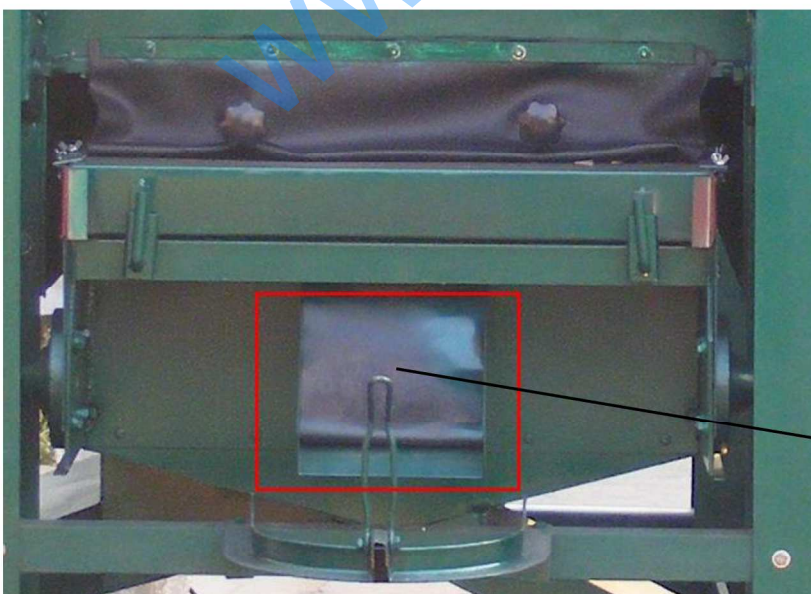
The above outlet is **outlet for good seed**,
and there are two sack holders under it.

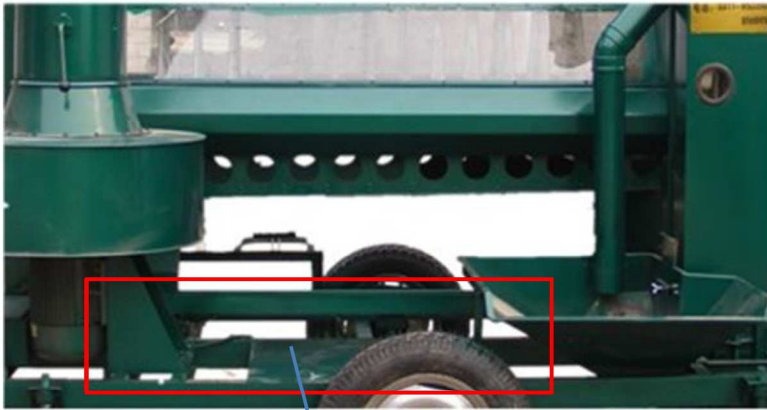
From top to Bottom are adjusting handle, **outlet of mixed seed** and **outlets of good seed**.

The black handle is called **material separation baffle plate adjusting handle**, it is used to adjust separation point of heavy seed and mixed seeds.

Under the outlet of good seed, there are sack holders which use to hold bags to fill in grain.

The grain from the outlet of mixed seeds will flow into grain returning groove and flow back into inlet hopper of elevator for second time selection.





Grain Returning Groove

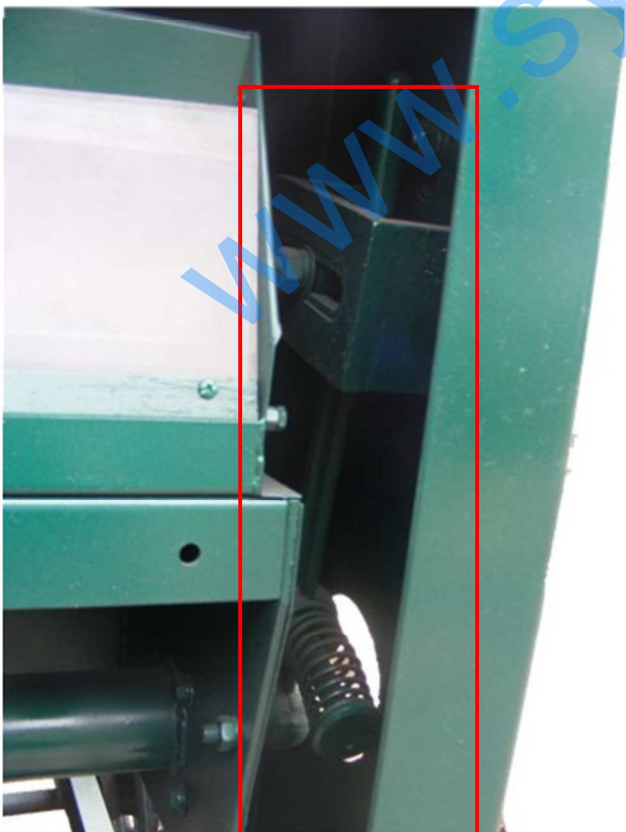
The grain seed which mixed good and bad seed will flow from this groove and back into inlet hopper of Gravity Separator for second time selection.



7.3 Mixed Material Reflow Groove



7.3 Mixed Material Reflow Groove



Damping mechanism:

Which can balance the vibrating force to make working steady,

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

We have customers all over the world!



Healthy Grain, Pretty Beans, Strong Seed. SYNMEC

We serve for



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