

SYNMEC

5XZ-6 Gravity Separator

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

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SYNMEC

The world top Manufacturer for Grain Cleaning Solutions
Adviser Seed Processing

5XZ-6 Gravity Separator



Introduction and Application:

5XZ-6 gravity separator is used for fine cleaning and impurity separation of seeds and beans with identical particle size but with differences in their specific weight.

The Gravity Separator is used to remove partially eaten, immature, insect damaged sick seed and moldy seed from good seed, which traditional cleaning method by Seed Cleaner and Indented cylinder prove to be less effective.

The Gravity Separator is suitable for efficient cleaning all cereals, grains ,pulses ,beans and seeds of all crops such as wheat, paddy, barely, maize, millets, sunflower seed, soybean, rice, quinoa seed, chia seed. oil seeds ,sesame , clover seed, vegetable seed etc.

Specification:

| | |
|-----------------------------------|--|
| Model | 5XZ-6 |
| Capacity (Count by wheat) | 5000 kg/h |
| Sieve Table Size | 3000*1200 mm |
| Total Power | 8.95 KW |
| Motor for build-in Air Blower | Three air blower (1.5KW*4 = 6 KW) |
| Motor for vibration | 2.2 KW (the vibration speed of deck can be adjusted by frequency converter from 0-480r/m) |
| Motor for Good Grain Release | 0.75 KW |
| Lateral angle of inclination | 3°~6° |
| Longitudinal angle of inclination | 0~6° |
| Amplitude | 7mm |
| Dimension (L*W*H) | 3440×1630×1900 mm |
| Weight | 2000kg |

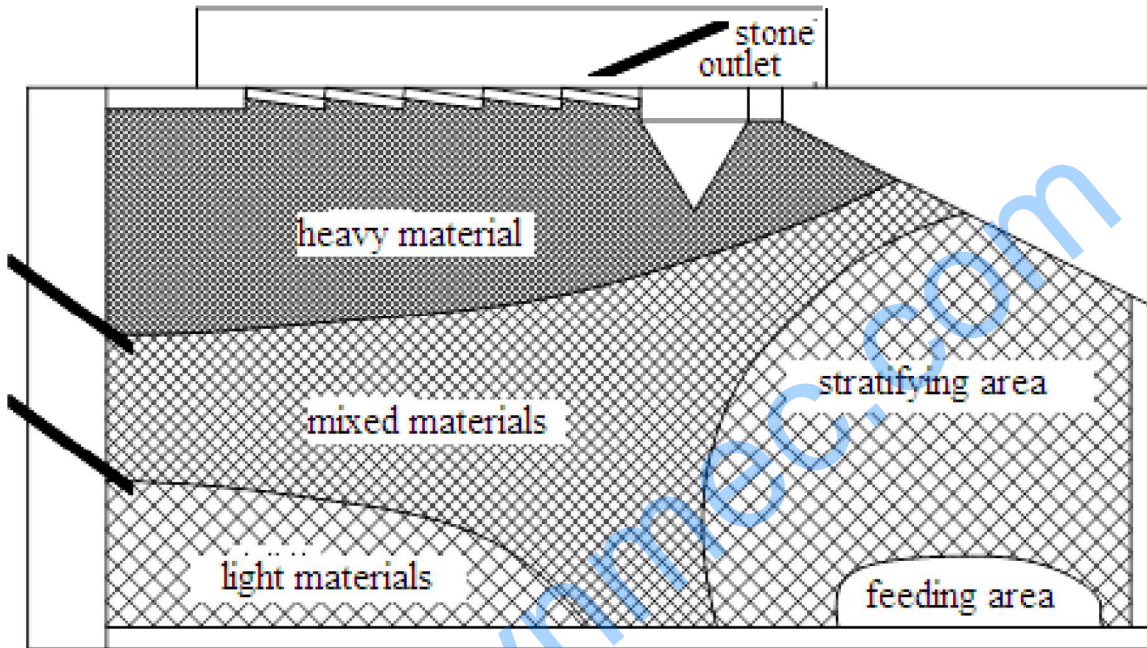
View of Machines:



Working Process:

The seeds or beans are fed continuously on the vibration deck surface of the Gravity Separator, and then spread and makes a uniform bed of material over the deck surface on stratifying area.

In stratifying area, by the function of uniform air system the light materials will go top of product bed and heavy material will go lower under the light materials and touch the deck surface.



The vibration deck is supported by a eccentric drive which makes the deck to move in high frequency and low amplitude. And the heavy materials will move up towards higher position of deck, while light materials move down towards lower position of deck. And in this process also generate of mixed materials which will be discharge from middle outlet .At the same time, some heavier gravity like stones will be discharged separately.

Reject:



Accept:



Details of machine:

High quality sieve bed, and the mesh hole can be made according to different grain.



Dust Cover (Cover the whole deck for collect the dust)

For dust cover, we have half cover and complete cover for choose.



Air Volume Adjusting Handles (adjust air volume according material's specific weight)

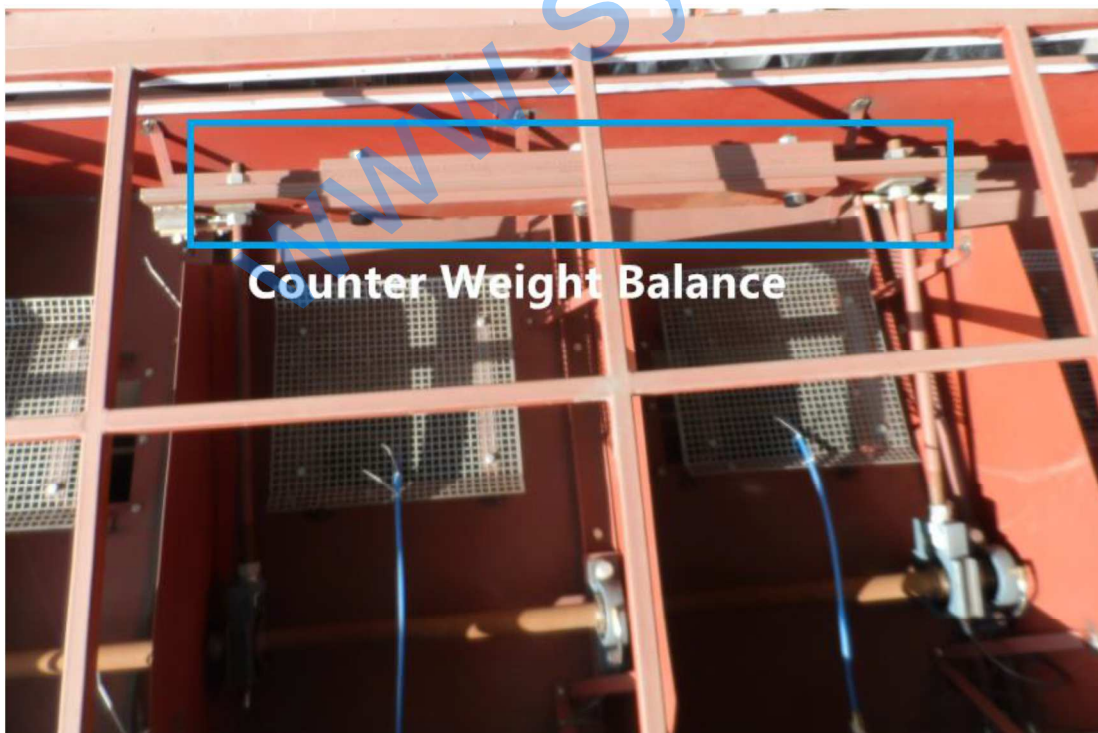


Heavy seed (good seed) will go out from the above groove.

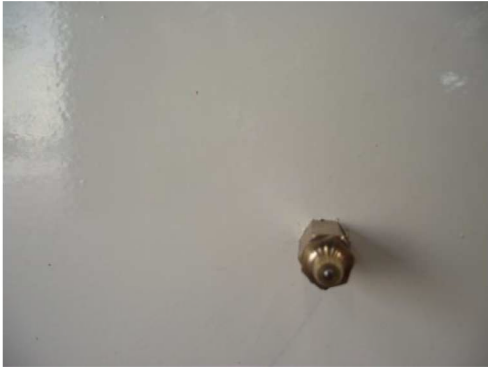
Wood Plates on side to control flow.

We installed mute air blower in the base of gravity separator. It is a high quality and professional air blower, motor in inside of the blower and very little noise.

5XZ-3 (3 pcs of air blowers), 5XZ-6 (4 pcs of air blowers), 5XZ-10 (6 pcs of air blowers)



We added counter weight balance in the machine. When machine running, it can reduce the vibrating power and make machine more stable and durable.

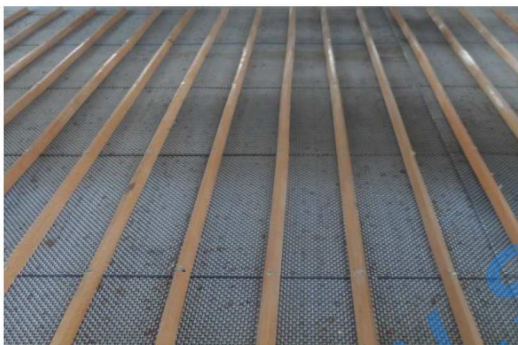


We also equipped lubricating plug valve in machine. When machine working half year, it can easy add lubricate into the bearings.



High quality bearing, very durable and long using life.

304 Stainless Steel Sieve Mesh
(suit to food quality standard)

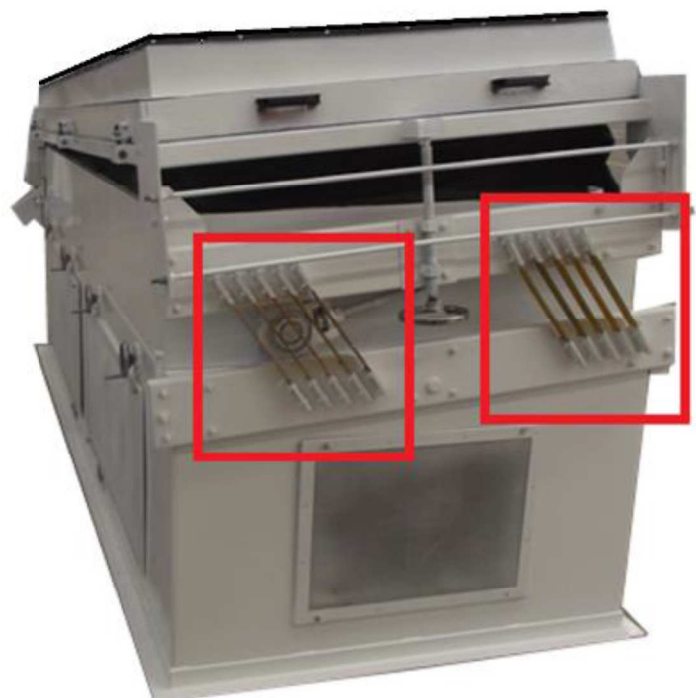


Net grids (prevent light impurities go into the machine)



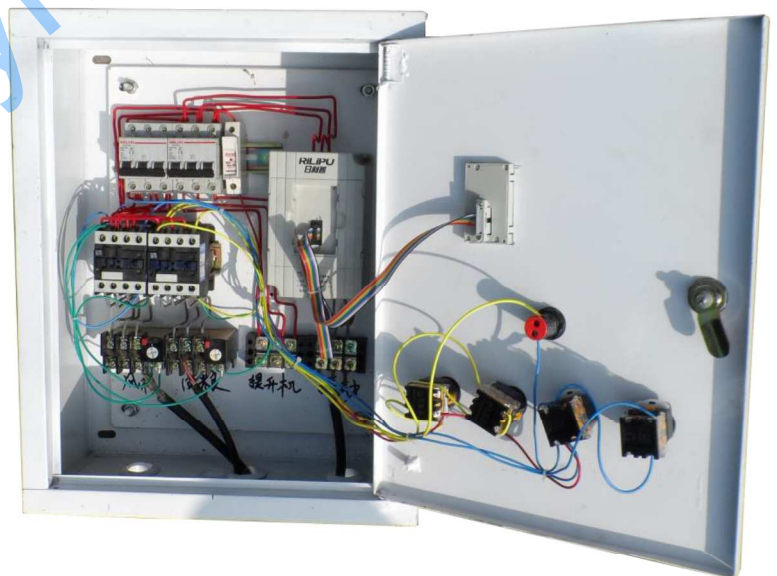
High strength of spring and spring plates to keep stable for machine during vibration.

Some of good seeds will go out from the above groove. Wood Plates on sides to control seed flow.





Outlets of gravity separator, from left to right is good outlet (heavy grain), mixed outlet and bad outlet (light grain)



We installed frequency inverter in power control box which can adjust sieve table vibrating speed.



The clients can use slope elevator to work with gravity separator.

The advantage of slope elevator:

One: it saves one extra elevator for mixed grain returning back.

Two: reduce lifting height and save space.

Three: low damage rate for grain.

We also have mobile type gravity separator



We are the best choice for you!

Factory view



Office Building

Workshops

We have professional manufacturing equipment!

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

We have customers all over the world!



Healthy Grain, Pretty Beans, Strong Seed. SYNMEC

We serve for



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