

SYNMEC

5XZ-10 Gravity Separator

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

www.synmec.com

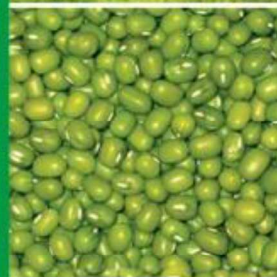
ISO
9001:2008
REGISTERED



SGS



BUREAU
VERITAS



SYNMEC

The world top Manufacturer Adviser for Grain Cleaning Seed Processing Solutions

5XZ-6 Gravity Separator



Introduction and Application:

5XZ-10 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:

Capacity (Count by wheat)	10000 kg/h
Sieve Table Size	3900*1550 mm
Total Power	15 KW
Motor for build-in Air Blower	Six air blowers (1.5KW*3 + 1.8KW*3 = 9.9 KW)
Motor for vibration	Y132M1-4, 4.0 KW (the vibration speed of deck can be adjusted by frequency converter from 0-480r/m)
Motor for Good Grain Release	Y90S-4, 1.1 KW
Lateral angle of inclination	3°~6°
Longitudinal angle of inclination	0~6°
Amplitude	7mm
Dimension (L*W*H)	4300×1960×2500 mm
Weight	2500 kg

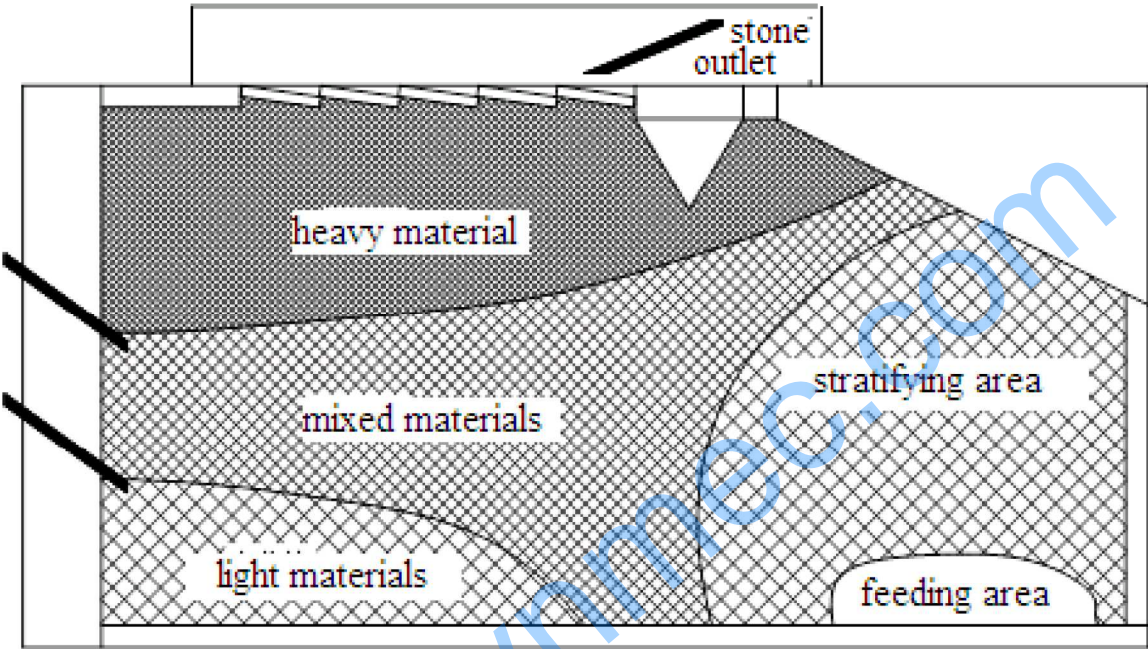
View of Machines:



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 an 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 two in one, half cover and complete cover for choose.



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

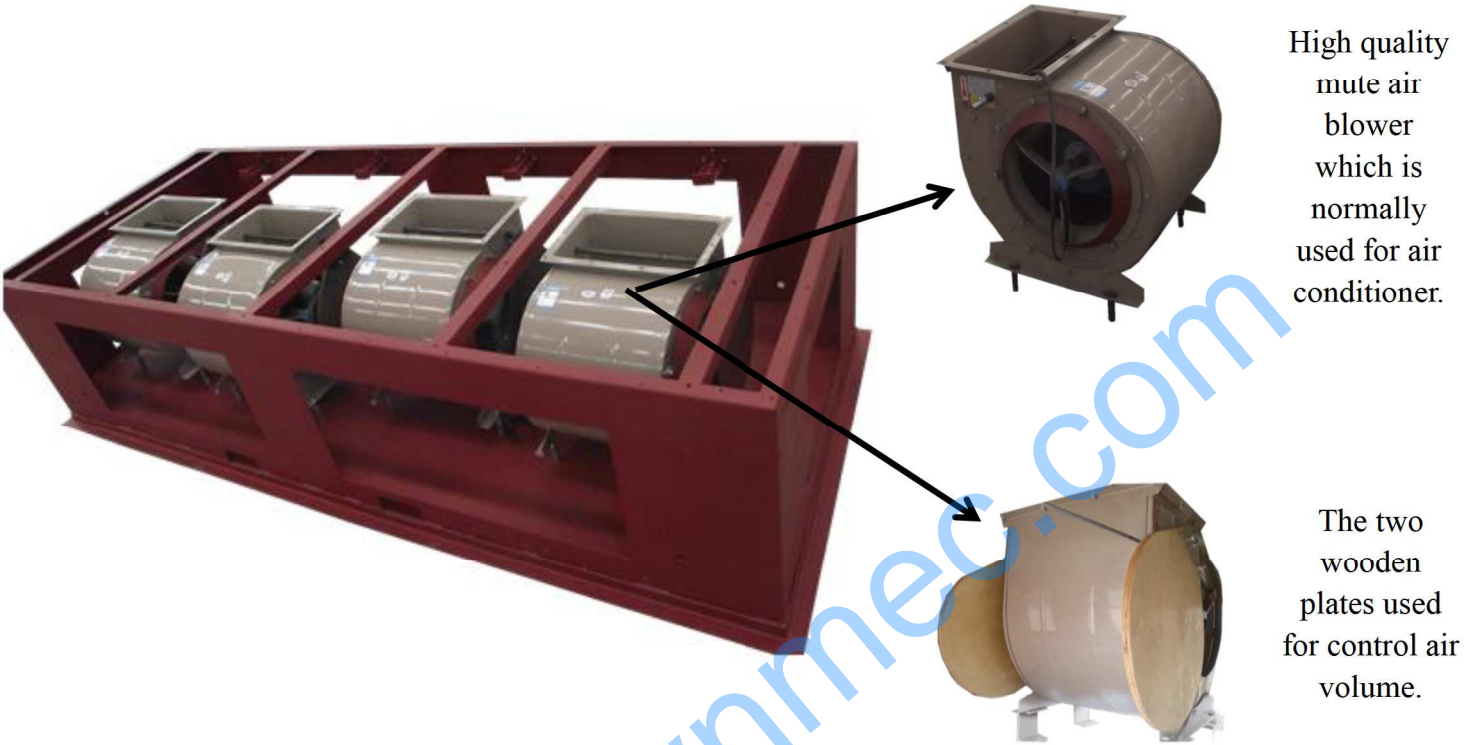


Heavy seed (good seed) will go out from the above groove.

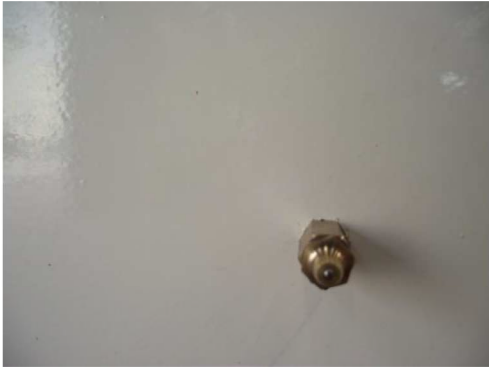
Wood Plates on side to control flow.

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.

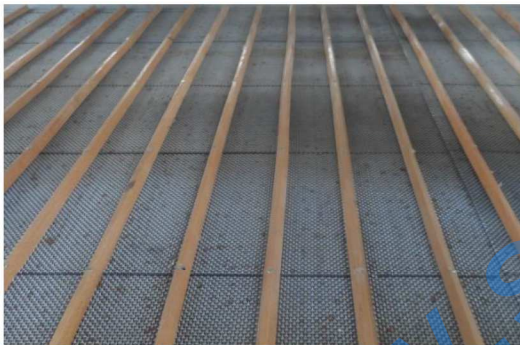


We also equipped lubricating plug valve in machine. When machine working half year, it can easy add lubricate into the bearings.



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)

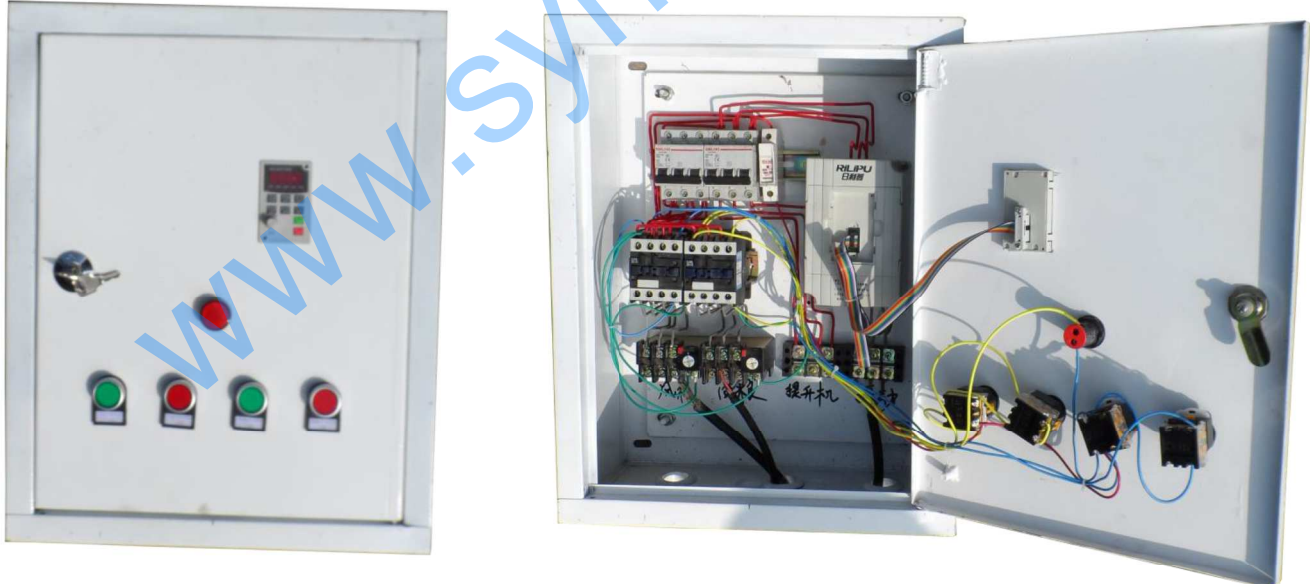


High strength of spring and spring plates to keep stable for machine during vibration.

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



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!

<p>Drilling and milling machine</p>	<p>CNC lathe</p>	<p>Laser cutting machine</p>
		
<p>Plasma cutting machine</p>	<p>Bending machine</p>	<p>Shearing machine</p>
		

We have customers all over the world!



Healthy Grain, Pretty Beans, Strong Seed. SYNMEC

We serve for



Shijiazhuang SYNMEC International Trading LTD. and Hebei RUIXUE Grain Selecting Machinery Limited have all the copyright of the information and pictures provided in this leaflet. We have all the rights to do necessary adjustments on the product, and these changes may not reflect on the leaflet at the moment of production.

Address:
Head office: 15th Guangan Street,
Shijiazhuang City, Hebei Province,
China 050011
Manufacture: Huaihe Industry Park,
Hongqida Street, Shijiazhuang City,
Hebei Province, China 050000

Tel: +86 311 676663887
+86 311 89901997
Fax: +86 311 67663887
Mobile: +86 13273161281 (Tony)
Whatsapp: +86 13803340060
Imo: +86 13803340060
Wechat: 13803340060
Email: tony@synmec.com