

SYNMEC

5XZ-L Laboratory Gravity Separator

It is used to separate material in same size but different specific weight.

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SYNMEC

The world top Manufacturer for Grain Cleaning Seed Processing Solutions
Adviser

5XZ-L Laboratory Gravity Separator



Parameter reference:

Name	Laboratory seed gravity separator
Model	5XZ-L
Capacity	50 kg/h
Air blower power	0.37 kw
Vibrating power	0.13 kw
Vibration frequency	0-600 times/min
Table board inclination	0-3°
Dimension	1000×700×1440 mm

Function:

The 5XZ-L gravity separator is used for separating seeds by specific gravity difference. It removes the granule with heavy specific gravity (as gravel, soil particles), and granule with light specific gravity (as mildewed seeds, seeds damaged by pest).

Working principle:

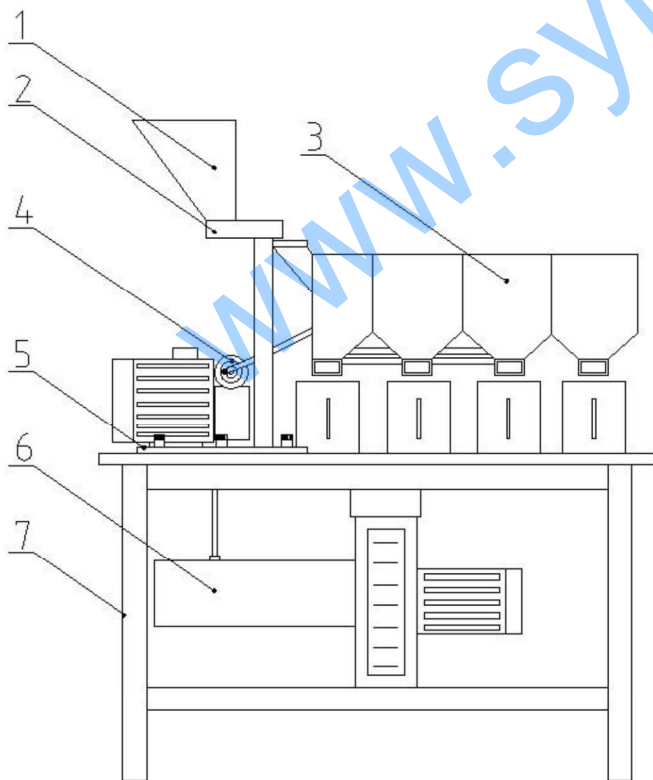
The sieve bed is a triangular structure. There are more aluminum punching holes at the material feeding area. This is designed to expedite material stratification. The material discharge outlets are at one side. Outlets are for light impurity, mixing material, good seeds. There are plates that can be adjustable to get the desired sorting effect.

Feature:

Laboratory gravity separator's sorting is based on grain density differences. The gravity separator table is a triangular structure. The gravity separator table vertical angle, horizontal angle, vibration frequency, bottom air blower volume are all adjustable. This can meet different dimensions, different densities of seed sorting requirements. Then you will get the seeds density distribution of this batch of seeds.

Note: The maximum seed that can be processed by 5XZ-L Gravity separator is wheat, which means if the seed size is bigger than wheat, that gravity separator can't work for it.

Laboratory gravity separator construction:



1. Feeding hopper
2. Electromagnetism vibration feeder
3. Gravity separator table
4. Driving rotation system
5. Control cabinet
6. Bottom fan
7. Machine frame



Electromagnetism vibration
feeder accurate control feeding
amount, keep evenly feeding

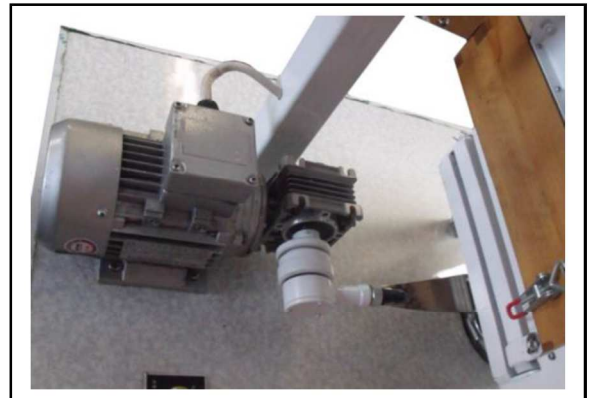


Material collecting

◦ Air transfer soft connection



Control panel with inverter

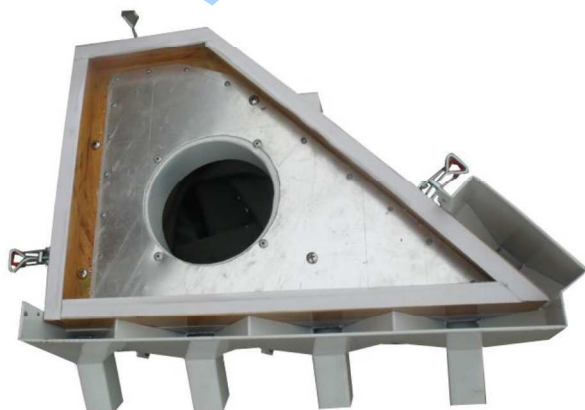
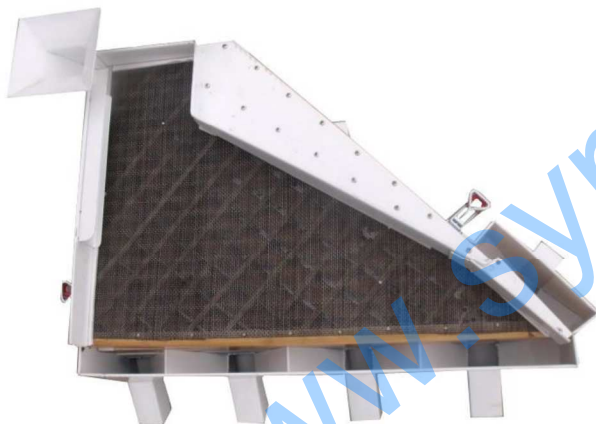


Vibration
Connecting
Plates

Laboratory gravity separator working table



Laboratory gravity separator working table is triangular type. It has 5 material separation areas. The light specific material will gather at the right-angle side, while the heavy specific material will gather at hypotenuse. By adjusting sieve table longitudinal & lateral inclination, sieve table vibration frequency, air volume, you can good selection for different seeds.



Working table 3 layers construction

The first layer is made of wire mesh, middle layer is made of punching screen, the last layer is wooden guidance structure for ventilation.

Seeds falling part has big punching holes of 2nd layer. So bigger air volume can make seeds make layer quickly.

Healthy Grain, Pretty Beans, Strong Seed. SYNMEC

We serve for



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