

Flat Screen Sizer Unit



The segmentation of the seeds is done by flat screen sizers which are provided with sieve frames with electric vibration motors.

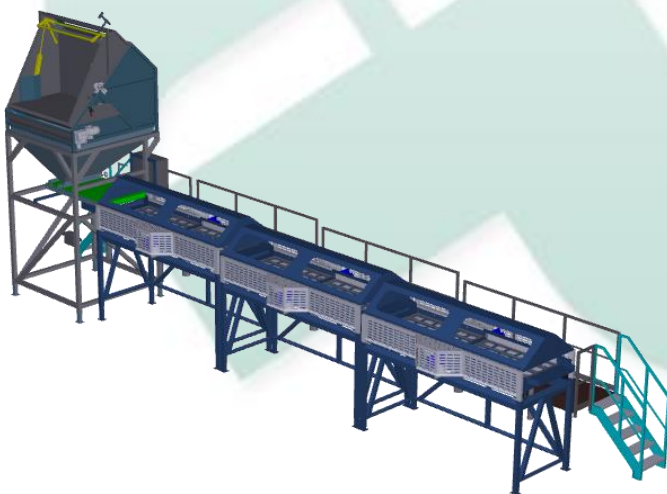
The vibration motors take care for an excellent movement of the sieve frame and this result in a very accurate seed size segmentation. One sieve frame can hold 2 sieves. This can be sieves with round or slotted perforation.

By placing the flat screen sizers in line, seed lots can be calibrated in 3,5,7 or more fractions at once

The dimensions of the sieving plate can be:

- 1000 x 400 mm.
- 1260 x 1000 mm.
- 1510 x 1000 mm.

Other sizes available. The screens are made with round and slotted holes.



Flat screen sizer 1000 mm wide with box tipple unit for 7 fractions.



Small flats screen sizer 400 mm wide for 3 fractions. Used for laboratory seed cleaning and pellets.

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Seed Supply:

Seed can be supplied by hopper bins or with a box tipple unit. The seed supply unit for hopper bins can hold 4 hopper bins. The seed supply is done by a feeding belt. The speed of the dosing belt is adjustable. This result in a very smooth and uniform seed supply. The seed supply can also be done by a box tipple unit. The tipple unit can empty different kind of storage bins. The seeds will be collected in a funnel shape bin and from there dosed to the sizer by a dosing belt.



Box tipple unit



Continues seed supply by vacuum systems on a hopper bin.



Seed supply belt hopper bin installation.



The hopper bins on top dose the seeds in the lower hopper bins. From there seeds will be transported by a belt to the flat screen sizer.

* Double hopper bin supply unit have two small dosing funnels.

** Box tipple supply unit have one larger dosing funnel.

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Sieve frame:

The sieve frame stand on four air shock absorbers and two vibration motors take care for the movement of the sieve frame. This combination result in an excellent movement of the sieve frame and a very good and accurate calibration process. Other real benefit is that the flat screen sizer is very quiet and that the main frame does not vibrate and send no vibrations to the floor.



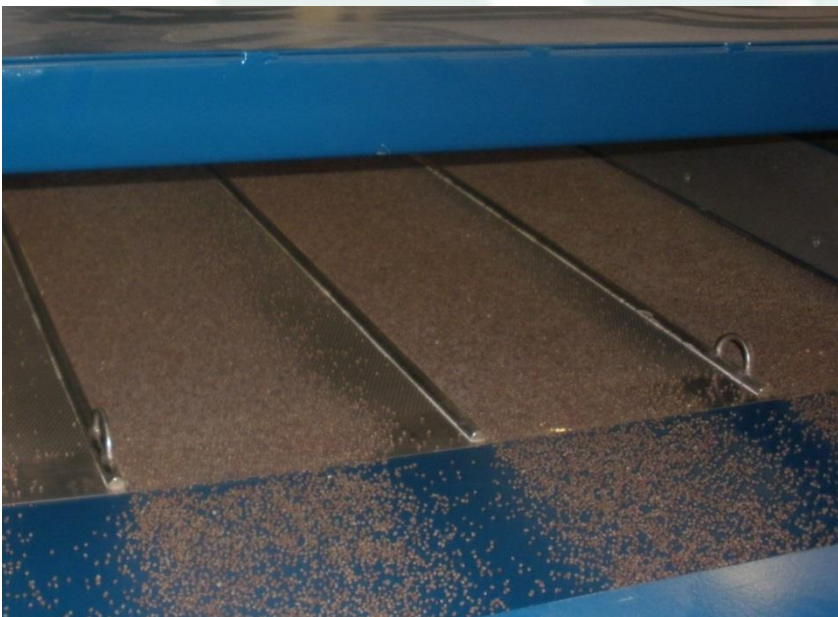
Two vibration motors are mounted on the sieve frame.



Sieve frame is mounted on four air shock absorber.



Pneumatic cylinders lock the sieves automatically in the sieve frame.



Calibration of seeds:

Sieve plate is 100 cm wide. High capacity with excellent accuracy will be achieved because of the big screen surface.

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Capacity numbers:

Crop	Capacity*	Accuracy
Radish	490 kg/hour	99.8%
Cabbage	120 kg /hour	99.8 %
Leek	130 kg/hour	99.8 %
Spinach	180 kg /hour	99.8 %
Carrot	180 kg/hour	99.8 %
Beet	145 kg /hour	99.8 %

*Note: Capacity is specified by an accuracy of 99.8%



Three flat screen sizers placed in line / seed supply by 90° supply belt.

Benefits:

- High capacity
- Easy to clean
- Segmentation in 3,5,7 or more fractions
- 24 hours process possible
- Short set up time
- Low noise calibration process
- Easy to operate
- Good dust protection system