

Calibration of seeds!



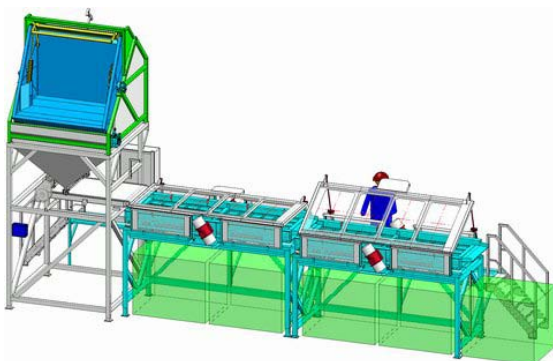
Use the flat screen sizers from Agratechnik for an excellent , fast, accurate and dust free calibration process!

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.

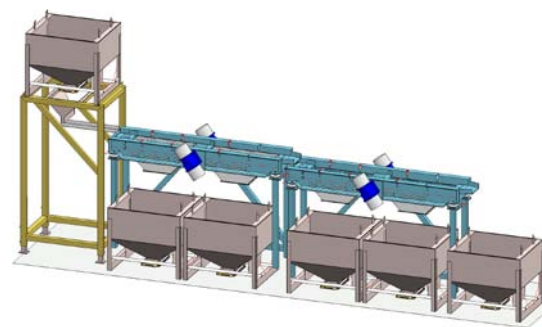


Photo: Three flat screen sizers placed in line / seed supply by 90° supply belt

- Seed lots will be calibrated in 7 fractions at once. Seeds can be collected in hopper bins or wooden boxes.
- Calibration unit can run 24 hours a day. The whole calibration process is well protected and will stop automatically when all seeds are processed or in case of an alarm.
- Dust hood open and close automatically by pneumatic cylinders
- Dust hood and exhaust hoods prevent that dust spread to the work area.



Flat screen sizer with box tipple unit



Small flats screen sizer (400 mm wide)

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.

Photo left; seed supply by hopper bins / photo right; box tipple unit

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.



*Photo left: Seed supply belt hopper bin installation.
Double hopper bin supply unit have two small dosing funnels.



Photo right; Box tipple supply unit have one larger dosing funnel

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 flat screen sizers 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

Three flat screen sizer for Syngenta Netherlands

Syngenta Netherlands has put into operation 3 new flat screen sizers from Agratechnik . The operators are very enthusiastic about the results of the new flat screen sizers. The sizing capacity in combination with accuracy has increased enormously comparing with the old sizers.

Time saving and safety

Another benefit is the time saving they have achieved for cleaning and convert the sizers. Within one hour the operator has clean the complete sizer line, has put in new sieves and the sizer is ready to calibrate a new crop. And no climbing or difficult position for doing this!

Low dust

The old sizers produced a lot of dust during processing. The flat screen sizers from Agratechnik are provided with dust hoods and accurate dust extraction facilities. Syngenta let us know that they have achieved a dust reduction of 80 % with the new flat screen sizers!

Energy saving

Syngenta wants to invest in machinery with a low energy consumption. The sizers from Agratechnik are provided with sensors. These sensors monitoring the process and the complete line(incl. dust filter) will stop when all seeds are calibrated or when one of the collection boxes are completely filled.

Capacity numbers:

Crop	Capacity*	Accuracy
Radish	450 kg/hour	99.8%
Cabbage	90 kg /hour	99.8 %
Leek	100 kg/hour	99.8 %
Spinach	150 kg /hour	99.8 %
Carrot	150 kg/hour	99.8 %
Beet	115 kg /hour	99.8%

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

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



Request form for Flat Screen Sizer unit.

Company name:.....

Contact person:.....

Tel number:.....

Country:.....

Please send me a quotation for:

Seed supply by:

- Hopper bins
- Box tipple unit
- Vacuum transport
- Other

Flat Screen Sizer unit:

- Small / 400 mm wide
- Standard / 1000 mm wide
- Number of fractions:.....

Power supply only location:

Volt..... Hz

Contact me by

- E-mail.....
- Phone.....

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