

# Products & Solutions for seed centres



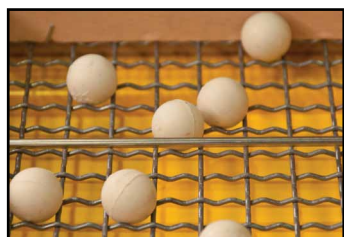
Plant the Planet



## The BCC Cleaner & Seed Sizer (Mini-Series)



screen with round holes



rubber balls avoid blocking and keep the screens clean



screen with oblong holes



seed lot is sized into 3 fractions

## THE BCC CLEANER & SEED SIZER (MINI-SERIES)

The BCC Cleaner and Seed Sizer (mini-series) consists of two screens with an integrated aspiration chamber which allows for extraction of light impurities, removal of debris both larger and smaller than the seed lot and dividing it into different sized fractions.

The Mini Series unit is generally used in gene banks, small-scale seed processing plants, R&D facilities or containerised nurseries that process their own cones and seed.

### THE PROCESS

Seed is manually fed into the hopper, which is fitted with a belt feeder with adjustable feeding rate. The system gives flexibility in feeding seed of various sizes, non-dewinged seed as well as small cones. The aspiration channel removes light particles (needles, empty seeds, wings, etc.). The aspiration unit can also be used for pre-cleaning (or scalping) of small cones. In this case the screens in the first section are removed to enable easy collection of the cleaned cones. Additional cleaning by hand can be done on top of the seed sizer as the cones move along.

The first step involves the cleaning process. Particles both smaller (e.g. dust, sand, small debris) and larger (twigs, needles, cone scales) than the seed are removed by selecting the appropriate screen sizes. The second step involves the sizing process. The seed lot is sized into 3 fractions i.e. small, medium and large. By repeating the sizing process with different size mesh screens, the seed lot can be divided into further fractions or the further removal of difficult foreign particles.





aspiration channel removes light particles

## OPERATIONAL BENEFITS & KEY FEATURES

- Feeding rate is determined by the height adjustable gate on the seed hopper and by adjusting the speed on the belt feeder.
- The screens are fitted with a transparent cover to allow for monitoring of the seed cleaning and sizing process.
- Screens are changed easily through a snap-on system.
- Screens are oscillated by an eccentric and variable speed motor drive to optimize the separation result.
- Adjustable screen oscillating speed allows different feeding rates of seed over the screens.
- Both the aspiration channel and chamber are fitted with transparent inspection covers. This enables the operator to monitor and adjust the aspiration process.
- Shutters allow for easy cleaning of the unit between batches to avoid mixing different seed lot species.
- The extracted fraction collected in the separation chamber can easily be re-processed if the setting was not adjusted correctly.
- Screens are available in different sizes and shapes.
- Bouncing rubber balls avoid blocking and keep the screens clean.



## ACCESSORIES AND EXTRA FEATURES

### Extra screens with various hole sizes and shapes

- oblong holes
- round holes

### Additional seed collection containers

## TECHNICAL DATA

<b>Dimensions (L x W x H):</b>	<b>2000mm x 850mm x 1900mm</b>
<b>Weight:</b>	<b>185kg</b>
<b>Power supply:</b>	<b>1 x 230V, 50Hz</b>
<b>Power requirement:</b>	<b>1.0kW</b>
<b>Screens:</b>	<b>10 screens included – sizes to be specified</b>
<b>Seed hopper capacity:</b>	<b>40 liters</b>
<b>Maximum production capacity:</b>	<b>approx. 5-30kg/hour</b>

