

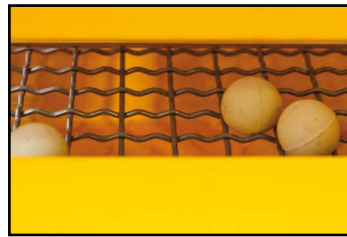
# Products & Solutions for seed centres



Plant the Planet



## The BCC Cleaner & Seed Sizer (2 & 4 Screens)



bouncing rubber balls avoid blocking and keep the screens clean



sizing of a wide range of seed species



seed and waste material are collected in separate boxes



screens in various sizes

## Cleaner & Seed Sizer (2 & 4 Screens)

The BCC Cleaner and Seed Sizer (2- or 4-screen) consists of either two or four screens, fitted with a belt feeder (with aspiration function), which allows for pre-cleaning (scalping) of smaller cones, extraction of light impurities, removal of debris both larger and smaller than the seed lot and dividing the seed lot into different sized fractions.

This larger model Cleaner and Seed Sizer is versatile and used in larger seed processing centers for pre-cleaning of smaller cones and cleaning and sizing of a wide range of seed species (from small Eucalyptus to large beech and pine nuts).

### THE PROCESS

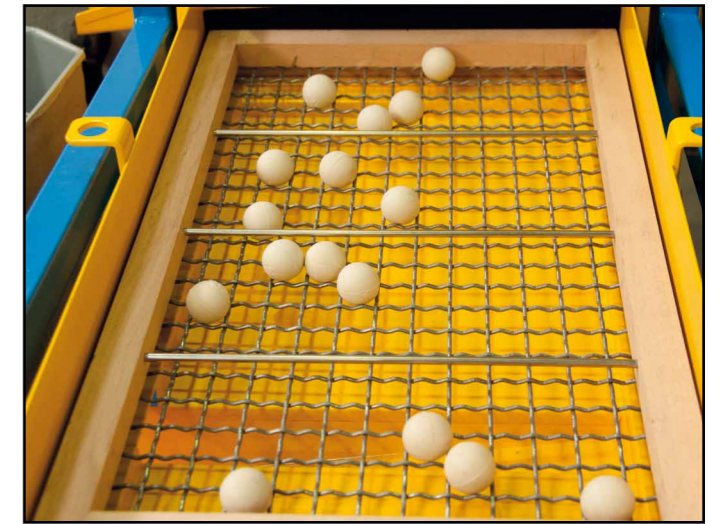
Seed is manually fed into the hopper, which is fitted with a belt feeder with adjustable feeding rate. The system gives flexibility in feeding seed of various sizes, non-dewinged seed as well as small cones. The aspiration channel removes light particles (needles, empty seeds, wings, etc.). The aspiration 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.

### Cleaning & Sizing

Seed cleaning and sizing is done in one or two steps, depending on the model used.

The first step in the 2-screen unit 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.

In the 4-screen unit, cleaning and fractioning is done simultaneously. This is done by using the appropriate screens in the appropriate positions. By repeating the cleaning and sizing process with different size mesh screens, the seed lot can be divided into further fractions or the further removal of difficult foreign particles. Impurities larger than the seed (eg. twigs, needles, cone scales) are removed in the overflow (falling out the back of the screen and collected in a container). After the seed lots have been divided into different size fractions they are collected in plastic containers.



4-screen cleaner & seed sizer

### OPERATIONAL BENEFITS & KEY FEATURES

- Belt feeding with aspiration function gives full flexibility in feeding seed of various sizes, non-dewinged seed and small cones;
- Feeding rate is determined by the height adjustable gate on the seed hopper and by adjusting the speed of the feeder.
- The 2-screen model is used to size the seed into three fractions.
- The 4-screen model is used to size seed into five fractions.
- The 4-screen model allows for simultaneous removal of debris smaller and larger than the seed while sizing the seed into three fractions.
- 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.
- The aspiration channel is fitted with transparent inspection covers. This enables the operator to monitor and adjust the aspiration process.
- Screens are available in different sizes and shapes.
- Bouncing rubber balls avoid blocking and keep the screens clean.
- The Cleaner and Seed Sizer can be used as a stand-alone unit or combined with other machines through a central working platform.



### ACCESSORIES AND EXTRA FEATURES

Extra screens with various hole sizes and shapes

- oblong holes
- round holes

Additional seed collection containers

## TECHNICAL DATA

### 2-screen version

**Belt feeder:**

**Dimensions (L x W x H)** 1600x 750x 1000mm

**Weight** 165kg

**Power supply:** 3 x 400 V, 50 Hz

**Power requirement:** 1.0 kW

**Seed hopper capacity**

**Belt feeder:** approximately 300 liters (seed with wings)  
approximately 50 liters (dewinged seed)

**Maximum production**

**capacity:** approximately 20-30 kg/hour

**Dust filter connection:** 2400m<sup>3</sup>/hour

Screens and collection containers: 10 screens (sizes to be specified) and 3 containers included

### 4-screen version

**Belt feeder:**

**Dimensions (L x W x H)** 1500 x 800 x 1400 mm

**Weight** 165kg

**Power supply:** 3 x 400V, 50 Hz

**Power requirement:** 1.0 kW

**Seed hopper capacity**

**Belt feeder:** approximately 300 liters (seed with wings)  
approximately 50 liters

**Maximum production capacity:** approx. 30-50 kg/hour

**Dust filter connection:** 3000m<sup>3</sup>/hour

