



BCC Drum Screen

Products & Solutions for seed centres

The BCC Drum Screen is a versatile and multi-functional piece of equipment used for various purposes in forest seed processing plants and containerised nurseries. Some of the uses include pre-cleaning of cones/pods/capsules, large scale extraction of seed, screening of growing media for nursery use, and pre-cleaning of inserts before washing and sterilizing.



TECHNICAL DESCRIPTION

1. Cone pre-cleaning and extraction of seed:

- a. The Drum is adapted to be used for pre-cleaning of cones/pods/capsules and large scale extraction of seed.
- b. The flow-through design enables a continuous or batch process.
- c. The rotating cleaning drum removes sand, small stones, needles and other impurities from the cone lot. Small and foreign particles pass through the mesh of the drum and are dropped into three waste bins placed on the floor below the drum, which allows for easy manual emptying.
- d. For seed extraction a drum insert with different mesh size which meets the specific requirements of the species will be used.
- e. In combination with a Feeding Conveyor and Roller Separator, the Cone Tumbler performs the function of a complete Pre-Cleaning Line, which also allows for removal of small and large impurities from the cone batch

2. Media screening

- a. The Drum Screen can be fitted with various size mesh screens (according to requirement) for screening of various types of growing media.
- b. In media processing plants the over-sized material which is screened out is collected for further processing.
- c. Media particles falling through the screen are collected on the integrated conveyor and transported for further processing.

3. Insert pre-cleaning

- a. Similar to media screening, the Drum Screen can be used to pre-clean inserts for growing trays.
- b. Using the appropriate mesh size, inserts are tumbled in the drum screen to remove waste substrate. The waste substrate falls through the mesh screen and the pre-cleaned inserts are collected at the back of the drum screen.

OPERATIONAL BENEFITS & KEY FEATURES

- Flow-through design makes it possible to process both continuous or batch wise.
- Large cleaning and extraction capacity.
- Various mesh sizes available.
- Drums are interchangeable with the assistance of a forklift. Note: high roof clearance is required inside the building.
- The drum can be adjusted at different angles (from 0° to 6.25°) to lengthen or shorten the screening process.
- The rotation speed of the drum is variable. Brushes are fitted to the side of the drum, which ensure that the mesh is cleaned of waste material stuck in the mesh during screening.
- Variable speed drive unit and adjustable inclination allows for a good balance between processing rates and process quality.
- Control buttons logic and easy to operate.
- The drum screen has an integrated conveyor belt below the screen for ease of materials handling.
- The drum screen is fitted with guiding walls that allow for the media to be directed onto the integrated feeding belt.
- Wheels can be fitted to the drum screen for mobility and flexibility.



TECHNICAL DATA

Dimensions (L x W x H):	3400mm x 1350mm x 2400 mm
Weight:	1200 kg
Power supply:	3 x 400V, 50Hz,
Power requirement:	1.1 kW
Compressed air consumption:	200-300 liters/minute at 6Bar
Dust filter connection:	3000m3/hour

* **Note that the equipment can be customized to meet individual requirements**

Disclaimer - As BCC AB equipment is continuously developed and refined, the design and capacity can differ from the figures listed here.

