

The BCC Precision Seeder

Products & Solutions for forest nurseries

The BCC Precision Seeder was developed to meet the following main criteria:

- High production capacity
- High accuracy sowing
- Handling of a variety of seed species with different sizes and shapes
- High reliability
- Low maintenance



single, double or triple sowing possible



high sowing accuracy



seed spillage is collected in seed containers below



compatible for different tray types

PRECISION SEEDER

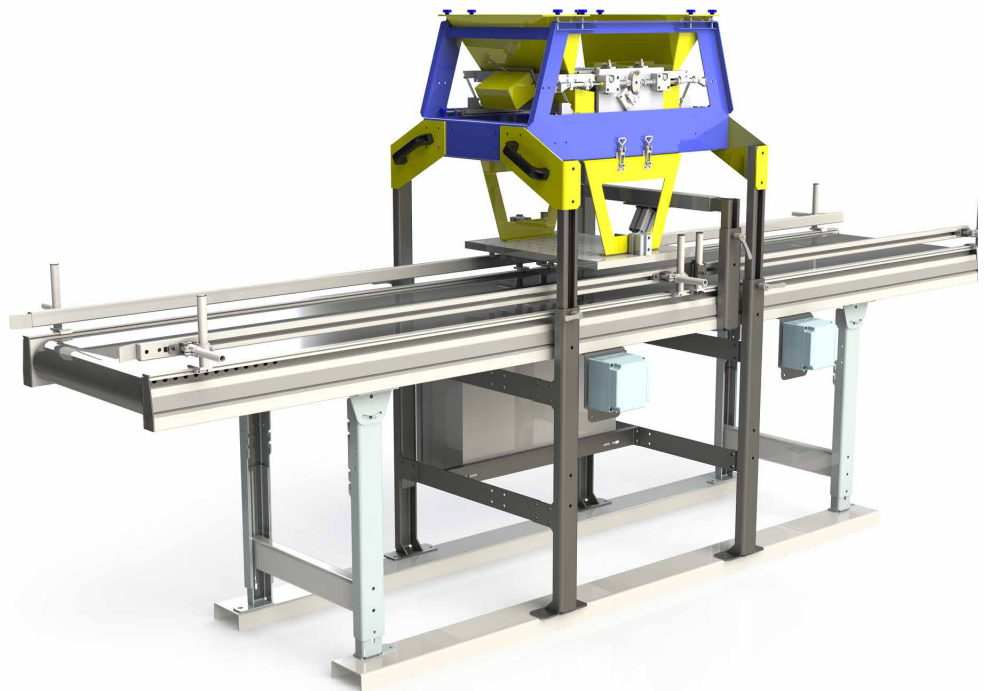
Today forest nurseries benefit from these features for lowest plant production costs. Even in countries with low labour costs, the seeder has proved significant cost savings while increasing quality of production.

The BCC Precision Seeder fulfils the above criteria and is used worldwide today for containerised forest seedling production.

Highest possible seeding accuracy can be achieved by the BCC Precision Seeder. Typically nurseries using the Precision Seeder reach accuracy rates of more than 95%. However, seeding accuracy of more than 98% is generally achieved with seedlots that have been sized and graded correctly prior to seeding.

THE PROCESS

Seeding is done through the principle of gravity, which is reliable. The seeder head generally consists of two sides (4-head are also available). Seeds are placed in the seed hoppers feeding the vibration plate. Seeds are vibrated along the guiding fingers onto the rotating shaft. During the seeding process the shaft rotates to pick up one seed per cavity. When the tray is stopped in position, the shafts rotate 180° to drop the seed into the seeding tubes. The seeding tubes are fixed to a seeding plate which is fitted with seeding nozzles. The seeding plate is lowered onto the tray and one seed is dropped into the centre of each tray cell. The seeding plate is lifted to its original position retrieving the seed nozzles from the tray cells.



During the vibration of seed onto the rotating shafts, seed spillage from the guiding fingers is collected in seed containers below the vibrating plate. This seed is manually or automatically returned to the seed hoppers. For different seed sizes and shapes, different guiding fingers and seeding tubes are used. Single, double or triple seeding is possible depending on seed quality. Several stops are also available for larger trays.



seed is vibrated along the guiding fingers onto the rotating shaft

OPERATIONAL BENEFITS & KEY FEATURES

- Accurate seeding placing a single seed in the centre of each tray cell.
- Fast and reliable operation through gravity seeding.
- Handles a wide range of seed sizes (1-11mm) and seed shapes, including pelletised seed.
- Single, double or triple seeding possible.
- Compatible for different tray types.
- Low maintenance.



ACCESSORIES AND EXTRA FEATURES

- Integrated dibbler in seeder plate for combined dibbling and sowing process.
- A variety of seeding programs are available through a selector switch on the control panel.
- Automatic seed return from seed collection containers to seed hoppers.
- 4-Head Precision Seeders for larger scale production.
- Exchange packages available for guiding fingers, rotating shafts and seeding plates for optimum flexibility in terms of seed species and tray types used.
- Exchange packages are easily changed with quick connection features.
- Also available as a Mobile Kit where production is required at different locations.

TECHNICAL DATA

Dimensions (L x W x H):	770mm x 600mm x 1620mm (depending on height of conveyor belt)
Weight:	65kg
Power supply:	3 x 400V, 50Hz, 5Amp
Compressed air consumption:	100litres/minute at 600kPa (6Bar)
Maximum production capacity (approx.):	
HIKO (350mm x 216mm, fixed tray):	20 trays/minute
Plantek & SideSlit (385mm x 385mm, fixed tray):	18 trays/minute
96 Insert Frame (517mm x 350mm, single cell tray):	10 trays/minute

* 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.

