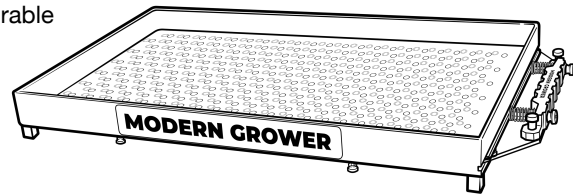


## Kwik Klik® Drop Seeder

### **Product Overview**

The Kwik Klik® Drop Seeder is an amazing time-saving tool that can simultaneously plant 264 seeds with one click. With a durable powder-coated aluminum frame, adjustable brass feet, and top-quality hardware, it's built to last. The Kwik Klik® frame requires both a Top Plate and a Bottom Plate for operation. Both plates must coincide with the number and pattern of cells in your tray (50, 72, 128, 264, etc.). The thickness of the Top Plate and the diameter of the holes are customizable to accommodate the size of seed you are planting. Plates can be made to accommodate all kinds of trays.



### **Selecting a Seed Plate**

When selecting your seed plates, there are three factors that determine how many seeds go into each cell of your tray:

- 1) The number and pattern of cells in your tray (both plates must match this)
- 2) The thickness of the Top Plate
- 3) The diameter of the holes in the Top Plate

Thinner plates allow fewer seeds per hole. Thicker plates enable you to put multiple seeds in each hole. Thicker plates are particularly useful when seeding microgreens, or clusters of seeds in each cell. Larger seeds require larger holes. But a larger hole, together with a thicker plate, can be used to seed more seeds per hole.

### **Compatible Trays**

Seed plates for the Kwik Klik® Drop Seeder can be customized for any kind of tray:

- Paperpot Trays (264 cell)
- Standard Trays (50 cell, 72 cell, 128 cell, and 200 cell)
- Microgreen 1020 Trays or Microgreen Paperpot Trays
- Air-prune style trays (50 cell, 72 cell, and 128 cell)

### **Seed Plate Guides**

The two included seed plate guides will allow you to experiment with your seeds to determine which plates you'll need for your plantings. There is one guide for the two most common Top Plate thicknesses: 1.5mm and 3mm. Modern Grower will happily exchange any Top or Bottom Plates if you determine you need a different configuration.

### **Seed Plate Care and Instructions**

#### **Step 1: Remove the protective masking**

- Each seed plate is clear acrylic and permanently labeled so it will be easy to tell them apart.
- We ship seed plates with protective masking on them. The masking is generally on BOTH sides of the seed plate and it needs to be removed prior to use. The masking can be removed by getting under an edge using a sharp piece of plastic.
- If your plate is NOT clear, then there is still a layer of masking on the acrylic.

#### **Step 2: Wash the plates before use**

- When you remove the protective masking from the seed plates, the plates will likely charge with static electricity.
- To remove that static build-up, wash the plates with soap and water.
- Don't soak the plates in water, just quickly wet, wash with soap, and dry them.
- The metal frame of the Kwik Klik® should significantly reduce the amount of static electricity present, but sometimes the acrylic seed plates will still build up a charge. Washing the seed plates is an easy way to remove that static.

### **STEP 3: Store the plates in a protected location**

- The seed plates can warp if they are not stored correctly. Please store the seed plates flat on a shelf like plates. Do not hang them or store them vertically like books on a shelf.
- Store the seed plates in an area that isn't exposed to extreme temperature and/or humidity like the greenhouse.
- While acrylic is relatively stable, it can deform and deflect due to heat and moisture, which will cause issues with how the plates perform.

### **Setting Up The Kwik Klik® Drop Seeder**

These are the steps for preparing the Kwik Klik® Drop Seeder with a Paperpot Bottom Plate (264 holes) and the appropriate Top Plate (according to your seed size).

- To install the Bottom Plate, begin by backing out all eight of the brass screws on the bottom of the frame, until each screw is no longer poking through the frame.
- Do the same with the two brass screws on the back end of the seeder.
- Next, lift up the two brass spring pins on the handle by pulling up and turning counterclockwise one quarter turn; this holds them in the up position.
- Then check that the end screws that hold the springs in are both screwed in at an equal distance.
- If using the plates for the first time, you will need to remove the blue plastic masking from BOTH sides of the plate.
- Position the frame to where the logo is facing you, and then position the Bottom Plate to where the imprinted text reads correctly from left to right.
- Now insert the Bottom Plate into the right side of the frame (under the spring-loaded handle).
- Ensure that the plate is evenly pushed down, resting inside the housing of the frame. Note: If the plate will not clear the edge of the frame under the handle, in order to drop down, you may need to lightly sand the scalloped edges of the plate until it will fit.
- Once the Bottom Plate is installed, tighten the two brass screws on the back end, just to where they are making contact with the edge of the plate. This will hold the Bottom Plate in place to prevent horizontal shifting.
- To install the Top Plate, the frame needs to be oriented in the same way, with the logo facing you.
- Install the Top Plate all the way to where the brass spring pins line up with their holes in the plate. Note: Because each Kwik Klik® drop seeder is assembled by hand, there is the off chance that the plate might not fit perfectly when first installed. If this is the case, you can lightly sand the scalloped edges of the plate to ensure a perfect fit. However, most plates will fit perfectly as is out of the box.
- Turn each spring pin clockwise to lock them down in the appropriate holes.
- Next, turn the Kwik Klik® Drop Seeder onto its side, squeeze in the side handle with one hand (holding it in the closed/drop position), and fully tighten all eight of the brass bottom screws, compressing the bottom and top plates together. This will disable the spring handle from releasing to the open position.
- Then go around to each of the brass bottom screws and loosen about a quarter turn. This will allow the spring-loaded handle to pop back out and will ensure that there is the correct amount of tension between the two plates. Note: If the bottom screws are tightened too tightly, the Top Plate will not slide in and out easily. If the bottom screws are not tightened enough, then seed will get between the plates. It is important to find that balance where the bottom screws are just loose enough.
- For more details and troubleshooting, refer to the Kwik Klik® tutorial video at: <https://paperpot.co/kkv2/>.

### **How To Use the Kwik Klik® Drop Seeder**

- With the Kwik Klik® Drop Seeder logo facing you, pour an excess of seed onto the top of the drop seeder.
- Pick up the entire drop seeder and rotate it front to back and side to side until the desired seed quantity has fallen into each of the 264 holes in the Top Plate.
- When all holes are filled with seed, angle the seeder back towards you so all remaining seed slides away from the seeding holes and is collected along the bottom inside edge of the seeder.
- If you are seeding more trays of the same crop, then you can leave the excess seed in the seeder.
- If you are done seeding that particular crop, then you can empty out the excess seeds by gently angling the seeder onto a single corner. This will allow you to collect all of the extra seed in one place so you can put it back into its container.
- Align the drop seeder over the tray. This is very similar to aligning the Dibbler over the tray: place the top-left Bottom Plate hole over the cell directly next to the top-left Spreader Frame tooth, and then align the top edge of the drop seeder with the top edge of the frame. Not only is this quick and easy; it will also help you as the clear plastic becomes cloudy over time, making it difficult to visually line up each hole over each cell.
- Once positioned, you can "klik" the Kwik Klik® Drop Seeder by squeezing the spring-loaded handle, dropping all seeds simultaneously into each of the 264 cells. Note: for some seed that may be prone to sticking in the holes, it is a good practice to keep the handle squeezed (in the drop position) and to do a quick visual scan to ensure all seeds have dropped and that none are stuck in the holes. If some seeds are stuck, you can manually tap them through with your left hand or the tip of a pen.

- Repeat the process for all subsequent trays in your planting.
- Note: If static becomes an issue during seeding, we recommend using ACL Staticide. ACL Staticide is a water-based product that you lightly spray onto the seed plates and then wipe off. The residue helps minimize static. Reapply as needed.