



MANN LAKE QUEEN BREEDING DEVICE

What it is:

A graft less queen rearing system, meaning that the larvae does not need to be transferred from its original cell into a cell cup before it is placed in a queen less hive.

How to use it:

A. Equipment Assembly

- 1) Take a new frame and attach 10 to 14 Brown Cell Fixtures to the top bar using a small brad nail in the center of each. These will be used to attach the Yellow Cell Cup Holders to the top bar.
- 2) Remove the back panel (solid) from the Cell Grid and fill the grid with Brown Cell Cups (110) then replace cover. Fill with all 110-cell cups even if not raising that many queens.
- 3) Attach the Cell Grid to the top bar of a 6 ¼" frame or a 9 1/8" frame.

B. Preparing the Hive

- 1) Create a queen less colony that is full of bees and one or two frames of brood. This colony should be fed heavily during the whole procedure and must be queen less for at least 3 days so that the workers realize that they are queen less and thus will not kill the queen when she is introduced inside the Frame/Cell Grid assembly.
- 2) During this same time period, place the Frame/Cell Grid assembly into a hive to allow the bees to clean it and for it to absorb the natural hive odor prior to introducing the queen to the Cell Grid.
- 3) Select a breeder queen possessing the traits that you wish your new queens to have (i.e. good honey production, mite resistance, gentleness).

C. Actual Breeding Process

- 1) Remove the small white cap plug from the front panel (slotted) of the Cell Grid
- 2) Gently place the breeder queen in Cell Grid and replace cap
- 3) Insert the Frame/Cell Grid assembly into the queen less hive
- 4) Close up the hive and leave for approximately 72 hours
- 5) After 3 days, remove the Frame/Cell Grid assembly from the hive. Most Brown Cell Cups should have a small white larva in the bottom.
- 6) Carefully remove back panel of Cell Grid and either a) trap queen on front side of Cell Grid by blocking entrance with piece of tissue OR b) place queen cage over entrance until queen is captured in cage.
- 7) Take the desired number of Yellow Cell Cup Holders, place them over the Brown Cell Cups and gently remove them from the Cell Grid. Disregard any of the cell cups with larvae in them that won't be used (acceptance drops by more than 50% on reused cell cups).
- 8) Attach the Yellow Cell Cup Holders to the Brown Cell Fixtures that were previously nailed to the top bars.
- 9) Place frame into the queen less hive
- 10) Continue to feed the hive sugar syrup and check for supercedure cells. If any are found, destroy them by pinching them off.
- 11) After approximately 8-10 days, the larvae should be totally enclosed. Once this has occurred, you can place a Hair Roller Cage over each larva. If the cell is not totally enclosed, wait 24 hours or so and recheck or the first queen to emerge will chew down remaining queen cells, killing them.
- 12) Leave Hair Roller Cage on the queen cell and she will emerge directly into the cage on approximately the 16th day.

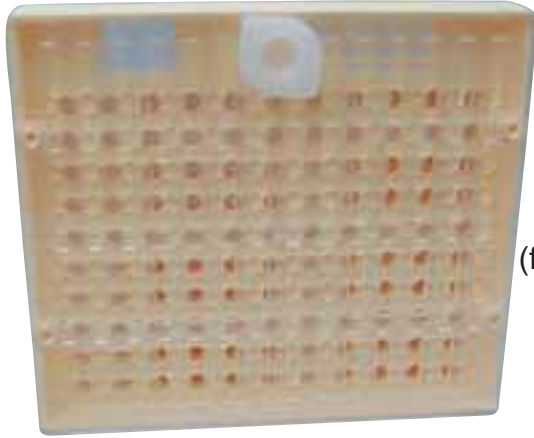
You now have a caged virgin queen that can be introduced into a mating nuc or directly into a hive as a replacement queen!

Piece Guide

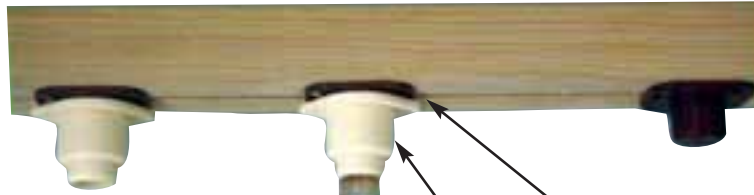
QC 105 - Cell Grid
QC 110 or QC 111 - Brown Cell Cups
QC 115 or QC 116 - Hair Roller Cages
QC 120 or QC 121 - Brown Cell Fixtures
QC 125 or QC 126 - Yellow Cell Cup Holders
QC 130 or QC 131 - Candy Holder for Roller Cages
QC 135 or QC 136 - Closure for Candy Holder

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Assembled Banking Bar



Cell Grid



Brown Cell Cup
(fits inside the yellow cell cup holder)

Yellow Cell Cup Holder
(fits onto the Brown Cell Fixture)

Brown Cell Fixture
(nailed to the Banking Bar)

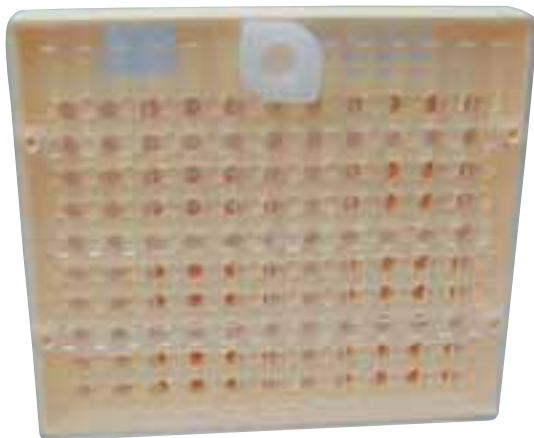


Candy Cup & Closure
(fits onto the queen cage)

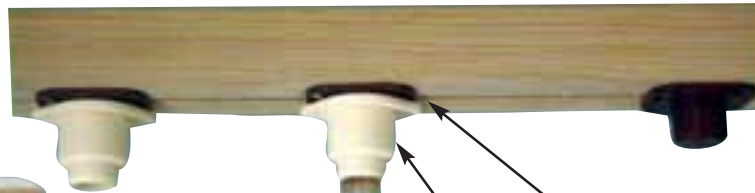


Queen Cage
(open end will fit on the Yellow Cell Cup Holder over the drawn cell)

Assembled Banking Bar



Cell Grid



Brown Cell Cup
(fits inside the yellow cell cup holder)

Yellow Cell Cup Holder
(fits onto the Brown Cell Fixture)

Brown Cell Fixture
(nailed to the Banking Bar)



Candy Cup & Closure
(fits onto the queen cage)



Queen Cage
(open end will fit on the Yellow Cell Cup Holder over the drawn cell)