



HEMP Planting & Growing Quick-Start Guide

So you are wanting to grow hemp and you are wondering how to get started? Do you start with seed in the ground or transplants? Because of the cost of the seed and getting an early, healthy start, farmers who have been growing it for years say planting plug/clone transplants started in the greenhouse is **the best choice**.

C&M (Checchi & Magli) Transplanters offer the perfect HEMP transplanter to fit your needs AND it is #1 in the market!

1. The first critical question to ask is:

Are you planting in **direct ground?**

OR

Are you planting **through plastic?**



Answer: the TRIUM model

Answer: the WolfPro or Wolf model



Ask any farmer who has tried it and they will tell you it does the job perfectly– Totally adjustable, constant planting depth, consistent plant-to-plant spacing, sets plants straight up– even tall HEMP plants. We even have models that will plant through plastic and water the plant. The hemp market is booming and many farmers are ready to catch the wave and start growing it for its various uses which are expansive. The best way to get in and growing fast is to use a reliable and proven transplanter. As Elar Jenkins, a farmer who planted 260 acres in Nevada, some no-till in bare ground, and some through plastic, all using C&M transplanters this past season said, "My C&M transplanters are the most precise transplanting machines I've ever used. I planted a great hemp crop with them. I now own 5."



www.BestTransplanter.com

C&M North America • CandM@allenintl.net • 801-794-9774

for planting in **direct ground**

Trium

THE MOST EFFICIENT AND #1 CAROUSEL TRANSPLANTER SOLD IN NORTH AMERICA

If you are planting into the direct ground (NOT through plastic mulch cover), then the best option is our Trium carousel model. This features a 10 cup carousel and is our fastest transplanter and does an amazing job planting even the taller hemp plants straight up in the ground. C&M transplanters are the only carousel transplanter that will plant a tall plant (even as tall as 16") straight up in the ground. We recommend plants be around 10"-12" - but the Trium will set ever taller plants straight up in the ground.

TRIUM Model Key Advantages:

- **Faster and packs plugs/clones deep and straight up**
- **Easy to adjust timing, depth, packing, etc.**
- **Drive wheels propel all row units (from hex shaft)**
- **Maximizes productivity -10 cup carousel (standard)**
- **20"- 72" row-to-row spacings, easily adjustable**
- **Plant-to-plant spacings 12"- 40" (using every cup)**
- **Plant-to-plant spacings 40"- 80" (using every other cup)**
- **Approx-- 1,500 plants/hour/row for hemp- the closer the plant-to-plant spacing, the greater the productivity**



8-row Trium planting hemp in Colorado.



The #2 shoe is standard on all Trium machines

C&M offers 5 different size shoes for our Trium model - the shoe is what the plug/plant falls down into prior to be kicked out into the soil, then firmly packs. It is important to let your dealer know the size of plugs/clones to identify the right shoe size you will need.



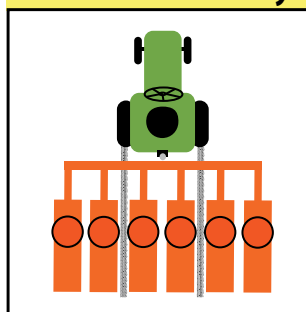
- # 1 SHOE ▷ 270 COUNT TRAYS and above
- # 2 SHOE ▷ 160-260 COUNT TRAYS
- # 3 SHOE ▷ 98-150 COUNT TRAYS
- # 4 SHOE ▷ 72 COUNT TRAYS
- # 5 SHOE ▷ 50 COUNT TRAYS



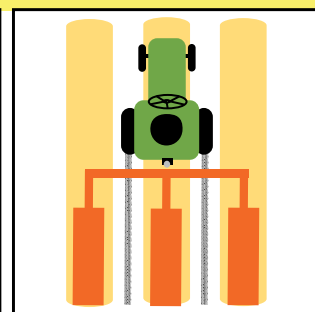
Click to see the Carousel Transplanter brochure including the Trium here. =>



How many rows do I need?



Even number of rows for 48" row-to-row spacing **or less**



Odd number of rows for 50" row-to-row spacing **or more**

No transplanter is made to plant behind the tractor tires. So we need to avoid positioning any row units behind or directly over the rear tire tracks.

All of our machines are adjustable as to the row spacings - our drive wheels must drive behind the tractor tires. When planting through plastic, we have to consider odd number of rows - because **we cannot plant behind the tractor tires** - and we have to plant on top of the plastic bed. **So these machines will be sold in configurations like 1 row, 3 row, or even 5 row.** The most common size of row-to-row spacings for planting through plastic are 60", 72" and 80".

It is important however that you let us know your desired row spacing so that we can be sure we have enough tool bar available for your desired row spacing.

Here are some common size hemp trays for our shoes:

- 188 count •98 count •50 count
- 128 count •72 count



72 COUNT



128 COUNT

www.BestTransplanter.com

C&M North America • CandM@allenintl.net • 801-794-9774

3. The third critical question to ask is: What is my desired **plant-to-plant spacing?**

If your desired spacing above 40" plant-to-plant, then we recommend planting with every other cup of our 10 cups. For example, if the desired plant-to-plant spacing is 48" inches, then we recommend you set the planter at half of that, which would be approx 24" and then plant in every other cup.



10 cup carousel

Healthy Root Ball

In addition to well cultivated ground, we stress the need of a health plug plant - one with the roots wrapped tightly around the plug to ensure that no part of the soil falls off in the plug tray. This is critical - critical for the life of the plant - critical for the consistent planting of the plants in the ground - and critical to help the person sitting in one of our chairs to be able to pull the plugs out at a speed which will not delay or hinder his/her rhythm of putting plants in the cups. We strongly recommend you leave your plugs/clones in the trays and then load the trays on our racks. Then the people feeding the plants can pull the plugs out easily. Again the key is that they plugs/clones must be grown in greenhouses in such a way as to have a firm/tight root/plug.



Common options used by hemp growers



3-POINT HITCH (standard)

OR



PULL-TYPE (optional)

Includes extra storage racks and a large water tank.



HORIZONTAL TRAY RACKS (optional)

Allows for more plant storage which means less down time.



SYNCHRONIZED WATERING DEVICE

Drops water with every plant - (tank not included)



WAVY OPENING DISC

Cuts a lane ahead of the shoe.



NO-TILL OPTION

Works amazing and ideal for cover crop

for planting through **plastic mulch**

Wolf or WolfPro

If you are planting through plastic mulch cover, we have two models to offer - the Wolf and the Wolf Pro. However, these two models **both can plant either through plastic or direct ground.**

Wolf & WolfPro Models--Key Advantages:

- Cups turn in a "ferris wheel motion" (Wolf & WolfPro models have cups, the Trium model has "shoes & kickers")
- Cuts through plastic
- Places plant deep into ground
- Packs the plant--packing the dirt around the ground is crucial to the survivability of the plant. (Water Wheel type planters do NOT pack)
- Adjustable pressure on rubber packing wheels
- Twice as fast as Water Wheel systems and less labor

What is your desired **plant-to-plant spacing?**

	Wolf				WolfPro
# of CUPS	← inches plant-to-plant →				
1	53 $\frac{1}{8}$	58 $\frac{1}{4}$	65	68 $\frac{1}{8}$	78 $\frac{3}{4}$
2	26 $\frac{3}{8}$	29 $\frac{1}{8}$	32 $\frac{1}{4}$	34 $\frac{1}{4}$	39 $\frac{3}{8}$
3	17 $\frac{3}{4}$	19 $\frac{3}{4}$	21 $\frac{5}{8}$	22 $\frac{3}{4}$	26
	Use these settings for the smallest tear in plastic				One spacing per cup = small cut in plastic

Numbers can change slightly with varying speeds and conditions



Of the two models for planting through plastic, we recommend the Wolf Pro for its many advantages -- Click to see the brochure here. =>

WolfPro



WolfPro Model Key Advantages:

- **FASTER**
- **Electronic watering of plants**
- after plant is packed
- **Easy to change out the cups**
- **Cups last longer**
- **Small tear in plastic**

The key is to determine what the desired plant to plant spacing you need.

For hemp - using the Wolf Pro, we really have 3 options -

- (see the planting chart above) -
- 3 cups - Approx 26" plant-to-plant
- 2 cups - Approx 39" plant-to-plant
- 1 cup - Approx 78" plant-to-plant

We highly recommend the **Wolf Pro** if your desired plant to plant spacing fits into one of these three distances.



Putting plant in cup.



Synchronized watering device.





for planting through **plastic mulch**

Wolf

Click to see the brochure here. =>



If the WolfPro does not fit your spacing needs or budget, we can offer the Wolf model. One advantage of the Wolf is that we can vary slightly the plant to plant spacing - but the further from the middle of the chart, the longer the cut in the plastic (the longer the cup stays in the plastic and therefore makes a longer tear). The Wolf also has a watering device but it drops water in the cup just before going into the ground.

What is my desired **row-to-row spacing?**

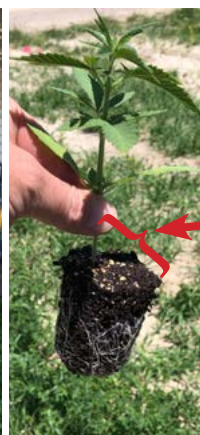
What is my desired **plant-to-plant spacing?**

With the Wolf, we offer the following options for plant-to-plant spacing for hemp (see the planting chart below) -

2 cups - 26", 29", 32" & 34"

1 cup - 53", 58", 65", & 69"

3-row Wolf planting hemp in Nevada.



As long as the clones/plants are less than 2.5" on top they will fit in these planting cups for the Wolf and Wolf Pro.

We recommend the deep perforating cups to ensure proper planting depth.



The 3-Row Plastic Mulch Layer

If you prefer to prepare your beds and lay plastic first, we offer our 3-row plastic mulch layer. Efficient and fast at preparing your farm for transplanting.



1. Fill out questionnaire
2. Take a photo OR scan, and send to us via one of these options:
email: CandM@allenintl.net
text: photo to 1-208-520-8222
fax: to 1-801-794-0554
3. We will notify a dealer in your area to get a quote prepared for you.



WHICH IS THE RIGHT TRANSPLANTER FOR YOU?

CUSTOMER QUESTIONNAIRE

This information will help us to determine which model of transplanter will produce the best results for your transplanting requirements.

1. Please specify the types of crops to be planted with this transplanter?

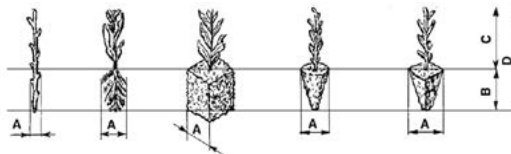
2. Kind of plants used and cell size? **(Circle the relative plant)**

A = in. _____

B = in. _____

C = in. _____

D = in. _____



3. Which kind of trays are you using? (hard, soft, number of holes,...)

4. Are you planting on raised beds or on flat soils?

5. Are you planting on plastic mulch? _____

6. Which kind of soil do you have? _____

7. Distance between rows? _____

8. In-row spacing? _____

9. Number of rows to plant? _____

10. Is there in the ground residual of previous cultivation?

11. Do you wish to distribute granular fertilizer when transplanting? _____

12. Do you wish to distribute granular insecticide when transplanting? _____

13. Do you wish to distribute water when transplanting? _____

14. How many acres for each transplanting season? _____

15. When in the year do you begin to transplant? _____

Miscellaneous information _____

COMPANY _____

CONTACT PERSON _____

BUSINESS PHONE _____ FAX _____

E-MAIL _____

CUSTOMER NAME _____ TODAY'S DATE _____

Please complete questionnaire and email to CandM@allenintl.net or fax to 801-794-0554. Thank you.