

# EZ TRIM HARVESTING

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## AND CONSULTING



WHICH HARVESTING METHOD IS RIGHT FOR ME?.....pg. 2



WHAT ARE THE STEPS TO THE HARVESTING PROCESS?.....pg. 10



HOW DO I USE AND MAINTAIN THE EQUIPMENT?.....pg. 17



HOW DO I ORDER EQUIPMENT AND PARTS?.....pg. 47



HOW CAN I GET SUPPORT FROM EZ TRIM?.....pg. 48

*ALL YOU NEED TO KNOW*



# WHICH HARVESTING METHOD IS RIGHT FOR ME?

- HARVESTING METHODS.....PG. 3
- HARVESTING PROCESS.....PG. 4
- ADVANTAGES AND DISADVANTAGES.....PG. 5-7
- HARVEST METHOD COMPARISON.....PG. 8
- HARVESTING KEY POINTS.....PG. 9



# WHICH HARVESTING METHOD IS RIGHT FOR ME?

## HARVESTING METHODS

WET | HYBRID | DRY

There are advantages and disadvantages to every harvest method. Our goal is to align you to the method that will improve product quality, compliment your resources, and increase efficiency and profitability.

- WET TRIMMING - Shucking and trimming fresh flowers
- HYBRID TRIMMING - Shucking fresh flowers & drying the flowers with the leaves prior to trimming
- DRY TRIMMING – Drying whole plants & shucking and trimming dried flowers



# WHICH HARVESTING METHOD IS RIGHT FOR ME?

## HARVESTING PROCESS

### STEP - BY - STEP

The step-by-step harvesting process varies based on the harvesting method

<u>WET TRIMMING</u>	<u>HYBRID TRIMMING</u>	<u>DRY TRIMMING</u>
DEFAN – Prior to harvesting	DEFAN – Prior to harvesting	DEFAN – Prior to harvesting
SHUCK – Fresh plants	SHUCK – Fresh plants	DRY – Whole plants by hanging
TRIM – Fresh flowers	DRY – Fresh flowers with leaves on screens	SHUCK – Dried or rehydrated plants
DRY – Fresh flowers on screens	TRIM – Dried Flowers	CURE – Dried flowers for trimming
CURE – Dried flowers for sorting	CURE – Dried flowers for sorting	TRIM – Dried flowers
SORT – Cured flowers for packaging	SORT – Cured flowers for packaging	SORT – Cured flowers for packaging



# WHICH HARVESTING METHOD IS RIGHT FOR ME?

## WET TRIM

### SHUCKING AND TRIMMING FRESH FLOWERS

#### ADVANTAGES

- Shucking can be automated effectively
- The flowers are less susceptible to damage
- 80% less space is required for drying
- Less time hanging and taking down plants
- No interruptions in harvest workflow
- Fewer steps to finished product
- Less risk of under/over drying
- Faster drying times
- Consistent trim quality
- Consistent flower to trim ratios
- Consistently larger flower sizes

#### DISADVANTAGES

- Machines require frequent cleaning
- Terpenes can degrade if not cured properly
- Over trimming can affect flower quality
- Trim requires drying and curing



# WHICH HARVESTING METHOD IS RIGHT FOR ME?

## HYBRID TRIM

SHUCKING FRESH FLOWERS & DRYING FLOWERS WITH LEAVES BEFORE TRIMMING

### ADVANTAGES

- Shucking can be automated effectively
- The flowers are less susceptible to damage
- 80% less space is required for drying
- Less time hanging and taking down plants
- Trim cycle times are faster
- Trim/sugar leaf quality is usually better
- Easier to get higher terpene content
- Eliminates bud flattening during drying

### DISADVANTAGES

- Moisture consistency is hard to obtain
- Bud size can fluctuate
- Trim to flower ratios can fluctuate
- Trimmed flower quality can fluctuate



# WHICH HARVESTING METHOD IS RIGHT FOR ME?

## DRY TRIM

### DRYING WHOLE PLANTS – SHUCKING & TRIMMING DRIED FLOWERS

#### ADVANTAGES

- Bucking and trimming can be done at your convenience
- More control over drying schedule
- Trim cycle times are faster
- Trim/sugar leaf quality is usually better
- It's easier to get higher terpene content
- Eliminates bud flattening during drying and curing

#### DISADVANTAGES

- Moisture consistency is hard to obtain
- Rehydrating is required if using automated shuckers
- Bud size can fluctuate
- Trim to flower ratios can fluctuate
- Trimming quality can fluctuate

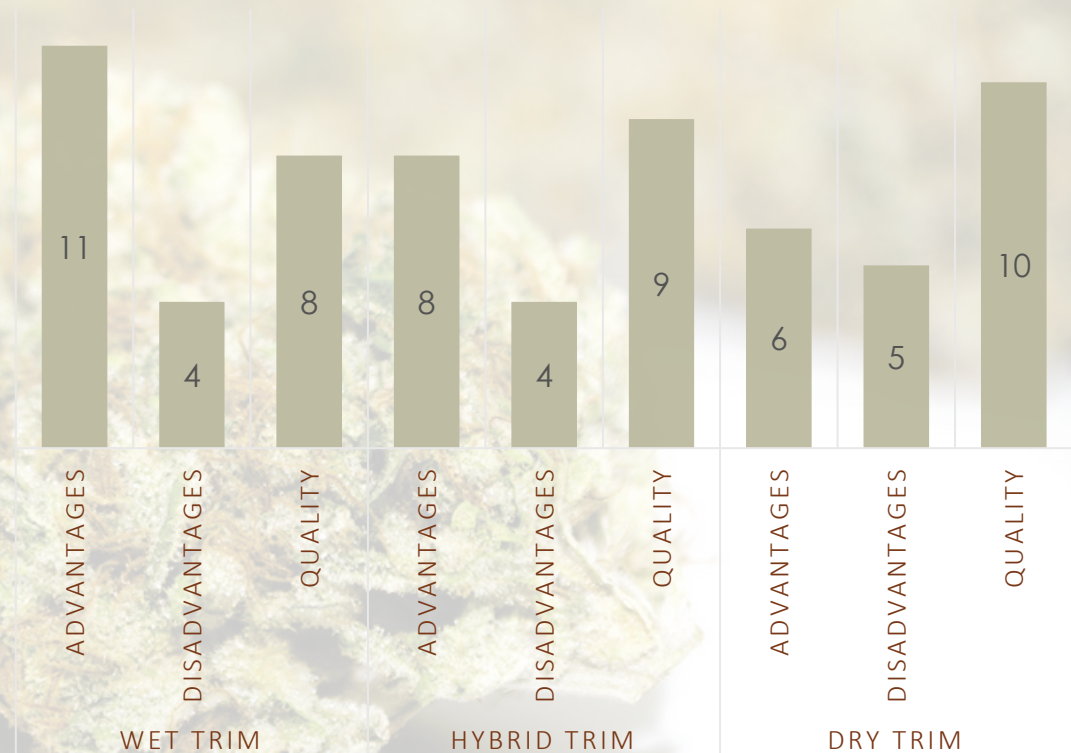


# WHICH HARVESTING METHOD IS RIGHT FOR ME?

## HARVEST METHOD COMPARISON

There are advantages and disadvantages to all 3-harvesting method. The best method is based on:

- Priorities
- Resources
- Staff size
- Harvest size
- Equipment available
- Harvest consistency over quality



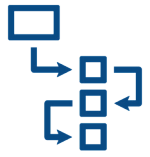




# WHICH HARVESTING METHOD IS RIGHT FOR ME?

## KEY POINTS

- **THERE ARE 3 MAIN HARVESTING METHODS**
  - Wet Trim, Hybrid Trim, and Dry Trim
- **THERE ARE 6 STEPS TO EACH HARVESTING METHOD**
  - Defanning, Shucking, Drying, Trimming, Curing and Sorting
- **THE STEPS CHANGE BASED ON THE METHOD**
  - Shucking, Drying, Trimming, and Curing are the variables
  - Defanning is always first and Sorting is always last
- **EACH METHOD HAS DIFFERENT ADVANTAGES**
  - **Wet Trim Method**
    - Allows for automated shucking
    - Requires less space for drying
    - Ensures consistency over time
  - **Hybrid Trim Methods**
    - Allows for automated shucking
    - Require less space for drying
    - Ensures high quality flower
  - **Dry Trim Method**
    - Ensures high terpene profile
    - Ensures high quality flower
    - Bucking and trimming can be done at your convenience
- **THE BEST METHOD IS BASED ON PRIORITIES AND RESOURCES**



# WHAT ARE THE STEPS TO THE HARVESTING PROCESS?

DEFANNING.....pg. 11

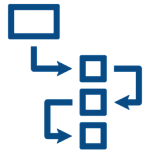
SHUCKING.....pg. 12

DRYING.....pg. 13

TRIMMING.....pg. 14

CURING.....pg. 15

SORTING.....pg. 16



# WHAT ARE THE STEPS TO THE HARVESTING PROCESS?

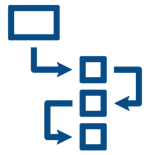
## DEFANNING

### REMOVING THE LARGE FAN LEAVES FROM THE STEM

EQUIPMENT: HANDS OR SCISSORS

**NOTE: THIS PROCESS IS THE SAME FOR ALL 3 HARVEST METHODS**

- a. We highly recommend removing the fan leaves before drying the plants, as once the leaves dry, curl and shrink, defanning becomes difficult
- b. The fan leaves if not removed before drying, will create stems that will need to be removed post trimming, requiring you to handle more flowers after trimming
- c. Defanning eliminates excess chlorophyll from your trim, improving concentrates
- d. Defan during the flushing period and prior to harvesting
- e. When possible, defan throughout the flower cycle
- f. Remove all fan leaves that have exposed stem
- g. The most efficient way to defan is by hand and by quickly plucking the leaves towards the base of the plant, scissors can also be used for this step
- h. Focus on the leaves that have stem exposed, especially at the base of the flower to prevent crow's feet from occurring after trimming
- i. Considerations if defanning is not an option due to resources and or crop size:
  - When dry trimming, fan leaves and their stems dry slower than sugar leaf, leaving stems that need to be removed post trimming
  - When wet trimming, the fan leaves will increase chlorophyll into concentrates, increase touch up required, and gunk up the equipment faster
  - When dry trimming or wet trimming, the first filtration and collection bag on the Ez Trimmer will capture a lot of the fan leaves and separate them from the rest of your trim



# WHAT ARE THE STEPS TO THE HARVESTING PROCESS?

## SHUCKING

REMOVING AND INDIVIDUALIZING THE FLOWERS FROM THE STEM

### WET TRIM & HYBRID TRIM

EQUIPMENT: DEBUDDER, HANDS OR SCISSORS

**NOTE:** Shucking should occur immediately after harvesting the plants and while the flowers are fresh, and the leaves are sticking out.

- a. Cut and individualize branches from the stalk
  - b. Cut and individualize stems from the branches (leave 2-3 inches at the base of the stem when using the Debudder)
  - c. Using the Debudder, hands, or scissors, remove and individualize all flowers from the stem
  - d. Leave 1/8" of stem at flowers base after shucking
  - e. When shucking wet flowers, be sure to shuck and trim immediately after harvesting, do not allow the harvested plants to sit for more than a few hours before shucking and trimming, doing so can cause the leaves to curl in, and flowers to squish, effecting trim quality
  - f. Take the time on this step to ensure the flowers are 100% individualized, with no more than 1/8" of stem, and free of any fan leaves
- **Average** throughput for every Debudder with a single operator should be 20,000 grams (44 LBS) per hour of fresh flower or 5,000 grams (11 LBS) per hour of dried finished flower
  - With 2 operators at a single debudder throughput is 20 LBS per hour of dried finished flower

### DRY TRIM

EQUIPMENT: SCISSORS OR DEBUDDER WHEN POSSIBLE

**NOTE:** Shucking should occur after Drying is complete. We recommend shucking the plants when partially dried to 50-60% RH, then continue drying and curing the shucked flowers prior to trimming. If shucking and trimming on the same day, and prior to curing, dry the plants to 30-40% RH, run the debudder on a very slow speed and expect a small amount of breakdown to your top colas. If plants have become too dry to safely use the debudder, rehydrate the plants to a level where breakdown is not an issue.

- a) Cut and individualize branches from the stalk
  - b) Cut and individualize stems from the branches (leave 2-3 inches at the base of the stem when using the Debudder)
  - c) Using scissors or Debudder when possible, remove and individualize all flowers from the stem
  - d) Leave 1/8" of stem at flowers base after shucking
  - e) When shucking dried flowers with the Debudder, be sure the flowers are not over dried, and the feed rate is set to 20 or lower
  - f) Take the time on this step to ensure the flowers are 100% individualized, with no more than 1/8" of stem, and free of any fan leaves
  - g) Rehydrate the plants in order to implement the debudder or automated shucking when plants are completely/over dried
- **Average** throughput for every Debudder with a single operator should be 2,700 grams (6 LBS) per hour of dried finished flower
  - With 2 operators at a single debudder throughput is 10 LBS per hour of dried finished flower
  - Shucking dried plants requires the machines be run slower to avoid damaging the flowers



# WHAT ARE THE STEPS TO THE HARVESTING PROCESS?

## DRYING

### REMOVING MOISTURE FROM THE PLANT AND FLOWERS

#### WET TRIM & HYBRID TRIM

EQUIPMENT: HUMIDITY CONTROLLED ENVIRONMENT WITH AIRFLOW

**NOTE:** Drying should occur immediately after trimming the flowers when wet trimming and immediately after shucking the flowers when hybrid trimming. Ensure you have proper airflow, ambient temperature, and humidity levels in the room

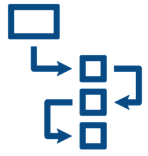
- a. Drying and curing to proper RH levels is the most important part of the harvesting process, and will ensure great smell and taste if done properly, even when trimming wet
  - b. Place the freshly shucked or trimmed flowers on drying racks for 5-7 days in a climate-controlled room with plenty of airflow, and until the product and room homogenize to 50-60% RH
  - c. We recommend using 4'x8'x ¼" mesh for drying the flowers. It allows for more airflow and decreases flattening
  - d. Rotate the product 2-3 times a day for the first 2 days to avoid flattening
  - e. Dry as slow as possible, preferably tapering the humidity down to 50% over 5-7 days
  - f. Circulate the air, pull in fresh air periodically, and check the product daily
  - g. Drying is complete when the outside of the flower is crispy, the inside is still spongy, and the stems are more yellow than green
  - h. Dry the trimmed leaf from the collection bags, after wet trimming, in the same manner
- **HYBRID TRIMMING = DRYING FRESH SHUCKED UNTRIMMED FLOWERS**
  - **WET TRIMMING = DRYING FRESH SHUCKED AND TRIMMED FLOWERS**

#### DRY TRIM

EQUIPMENT: HUMIDITY CONTROLLED ENVIRONMENT WITH AIRFLOW

**NOTE:** Drying should occur immediately after harvesting the plants

- a. We recommend shucking when the plants are partially dried to 50-60% RH, then continue drying and curing the shucked flowers prior to trimming.
  - b. Remove the fan leaves 1-2 days before harvesting your plants and before trimming
  - c. Hang dry the plants, or individual stems, in a humidity-controlled environment for 5-7 Days, or until the plants and room homogenize to an ambient level of 50 - 60% RH
  - d. Circulate the air constantly, pull in fresh air periodically, and check the product daily
  - e. Drying is complete when the stems bend to 90 degrees before snapping, the outside of the flowers are slightly crispy, the inside of the flowers are spongy, and the stems are more yellow than green
  - f. Do not completely dry the plants if using automated shucking machines, Dry to 50-60% humidity
  - g. Over-drying the flowers at this point will cause the flowers to occasionally break apart when either shucking or trimming
  - h. Rehydrate the plants in order to implement the debudder or automated shucking when plants are over dry
  - i. **If you need to shuck and trim on the same day, and prior to curing, dry the plants to 30-40% RH, as opposed to 50-60% RH, run the debudder on a very slow speed and expect a small amount of breakdown to your top colas**
- **DRY TRIMMING = DRYING WHOLE PLANTS OR BRANCHES**



# WHAT ARE THE STEPS TO THE HARVESTING PROCESS?

## TRIMMING

REMOVING THE LEAVES FROM THE FLOWERS

### WET TRIM

EQUIPMENT: EZ TRIMMER, WANDER TRIMMER OR SCISSORS

**NOTE:** Wet trimming should occur immediately after the flowers have been shucked, and while the flowers are fresh, and the leaves are sticking out.

- a. Proper preparation is key to quality trimming, individualize all flowers, remove all fan leaves and keep no more than an 1/8" to 1/4 "of stem at the base of the flowers
- b. There is a balance of quality and speed for every strain, some strains require zero touch up, while others need some, find the optimal trimming cycle time and touch up required that creates the best quality and efficiency
- c. Dialing in the blade to its closest point is crucial to getting a tight quality trim
- d. **Having extra blades, grates and filtration bags can provide a quick swap out solution for maintaining a clean unit**
- e. Multiple Ez Trimmers provide advantages to a single larger trimmer:
  - 1 person can easily operate 4 Ez Trimmers
  - Redundancy
  - Trim multiple strains simultaneously
  - Adjust the trimming dynamics as needed for different strains and moisture levels
- I. Batch sizes should be 400 – 600 grams of fresh flower, and batch times should be 1-2 minutes
- II. **Average** throughput for every Ez Trimmer should be 20,000 grams (44 LBS) per hour of fresh flower or 5,000 grams (11 LBS) per hour of dried finished flower
- III. For clients that prefer hand trimming and hang drying or smaller operations that don't need the capacity of the Ez Trimmer we offer the Wander Trimmer for fast and efficient trimming of your wet product.

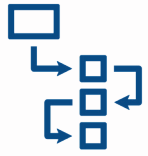
### DRY TRIM & HYBRID TRIM

EQUIPMENT: EZ TRIMMER OR SCISSORS

**Note:** Typically, the product is ready to trim when the plants and the room have homogenized to an ambient RH of 30-40%.

- a. Proper preparation is key to quality trimming, individualize all flowers, remove all fan leaves and keep no more than an 1/8" to 1/4 "of stem at the base of the flowers
- b. The most important aspect of dry trimming is moisture level in the flowers. Too much and it won't trim, too little and the flowers will become fragile
- c. Dry trimming is done through friction, not cutting
- d. We recommend checking for dryness by disturbing one of the outer leaves, if it bends it is not dry enough. The leaves need to snap when disturbed.
- e. It is crucial that the product is dried and prepped properly prior to trimming, this means, all the flowers have been individualized, and that the outer leaves snap, and do not bend at all when disturbed
- f. Remove the cutting blade when dry trimming to avoid mincing the trim too small
- I. Batch sizes should be 300 – 400 grams of dried flower, and batch times should be 30 sec to 1 minute
- II. **Average** throughput for every Ez Trimmer should be 15,000 grams (33 LBS) per hour of dried finished flower

PLEASE ALSO REFERENCE:  HOW DO I USE AND MAINTAIN THE EQUIPMENT?



# WHAT ARE THE STEPS TO THE HARVESTING PROCESS?

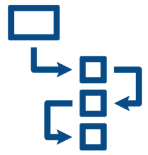
## CURING

SEAL, STORE AND AGE THE FLOWERS FOR STRONG TERPINE PROFILE

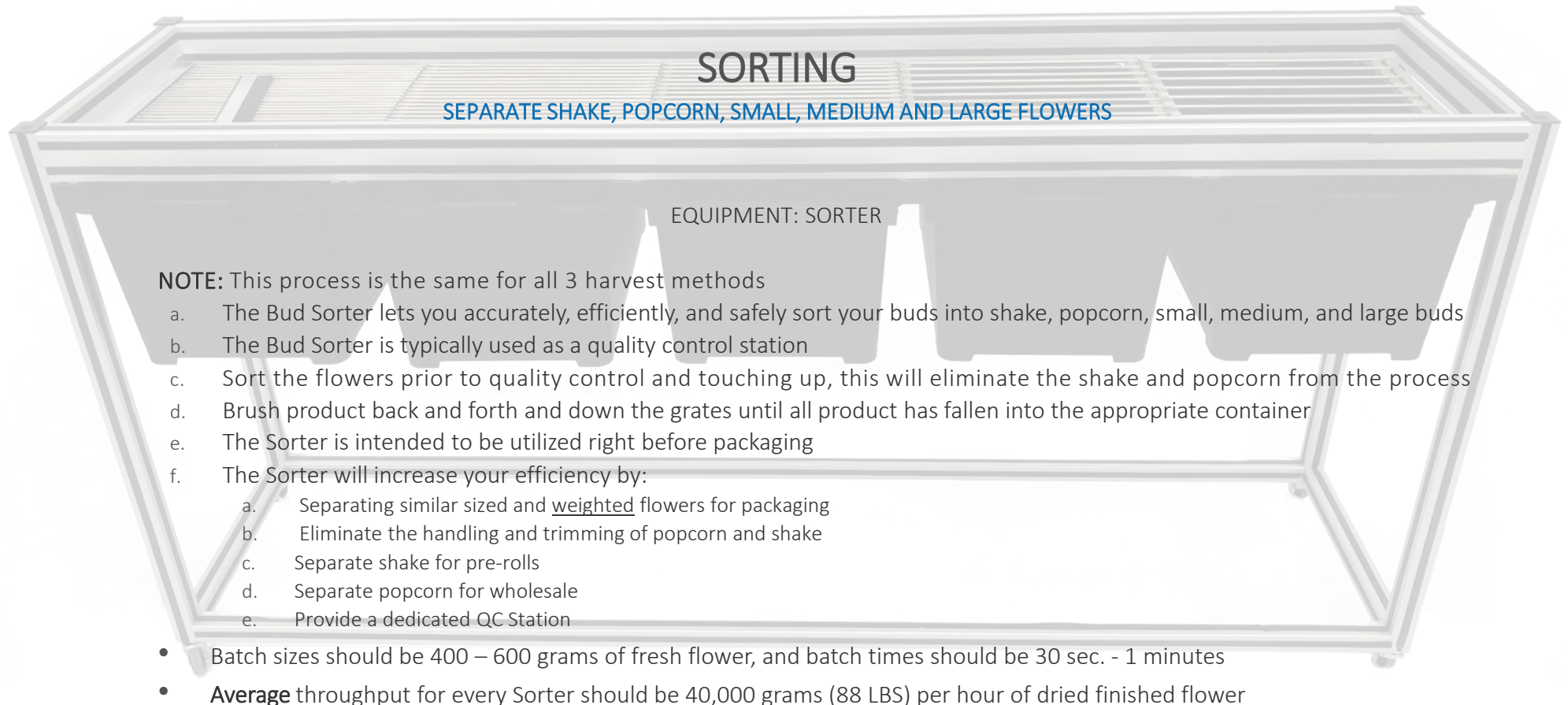
EQUIPMENT: SEALED CONTAINERS

**NOTE:** This process is the same for all 3 harvest methods

- a. Drying and curing properly is the most important part of the harvesting process
  - b. Curing will ensure great smell and taste if done properly, even when trimming wet
  - c. Curing is not something easily scalable, ratios of air to product is crucial for oxidization and absorption of terpenes
  - d. Regardless of the container you use, or room size, the ratio of product to air space should be roughly 75% product, to 25% air
  - e. Place properly dried and trimmed product into appropriate sealed containers
  - f. Ideal container humidity should start at roughly 40-50%RH and taper down to 30 – 40%RH over the curing process
  - g. Inspect the product daily, ensure proper moisture level through touch, and cure completion through smell
  - h. Aerate or burp the containers daily by opening the sealed containers, and allowing the product to breath as needed
  - i. Be sure to rotate, or mix the product every 24 hours
  - j. Cure the trimmed leaf from the collection bags in the same manner when wet trimming
- Ideally cure for no less than 5 days



# WHAT ARE THE STEPS TO THE HARVESTING PROCESS?







# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

**\*IMPORTANT:** Thoroughly cleaning the machines after EACH use is imperative to longevity and producing a quality product over time. Please refer to the accompanied cleaning information or watch our cleaning videos. <https://www.eztrim.com/2020/04/08/video-library/>

DEBUDDER.....pg. 18 - 24

EZ TRIMMER.....pg. 25 - 43

SORTER.....pg. 44 - 46



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## DEBUDDER HOW IT WORKS

The Debudders quickly and gently removes the flowers from the stem, utilizing rollers that grab the stem, and pull the stem through various hole sizes. The Debudders can be used for both wet, and dry product, and with its unique speed control, and hole design, all three models will pluck the flowers from the stem, without damaging the product. The Debudders will help you complete the shucking process, in half the time, and with half the staff.

The Debudder comes in three different models, The Tabletop, the Indoor, and the Outdoor. In addition to three different models, the Debudders come standard with a workstation, forward, reverse, and true speed control, to adjust the feed rate for wet and dried product. The Tabletop and Indoor model, both have four different hole sizes, while the outdoor model comes with eight. These hole sizes can also be ordered custom to your preference. Additionally, all 3 models can accommodate 2 people feeding simultaneously from either side of the unit.



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## DEBUDDER HOW TO ASSEMBLE

1. Cut the banding and wrapping from the unit and remove it from the pallet
2. Lift and rotate open the back panel and lock the lid stays
3. Place a flower collection bin on the front shelf below the feed holes, ensuring that the container sits tight to the front panel with no gap between
4. For the Tabletop Debudder, simply set the entire unit on a table and a collection container in front of the unit
5. Place a stem collection container on the back side, and base of the unit
6. Plug the power cord into an 110VAC outlet and power on the unit
7. The Debudder is now ready for use



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## DEBUDDER WET TRIMMING & HYBRID TRIMMING

### SHUCKING INFORMATION:

1. Adjust the speed control dial somewhere between 30 - 50
  2. Dialing in the speed for each strain is crucial, especially when shucking dry product, slower isn't always better, try to find the speed that allows the product to really pop off the stem
  3. When shucking wet flowers, be sure to shuck and trim immediately after harvesting, do not allow the harvested plants to sit for more than a few hours before shucking and trimming, doing so can cause the leaves to curl in, and flowers to squish, effecting trim quality
- **Average** throughput for every Debudder with a single operator should be 20,000 grams (44 LBS) per hour of fresh flower or 5,000 grams (11 LBS) per hour of dried finished flower
  - With 2 operators at a single debudder throughput is 20 LBS per hour of dried finished flower

### DRYING INFORMATION:

1. Dry the flowers on perforated trays or mesh racks
2. Dry as slow as possible for 5-7 days and until the flowers and room homogenize to 50-60% RH
3. Circulate the air constantly, pull in fresh air periodically, and check the product daily
4. Rotate the product 2-3 times a day for the first 2 days to avoid flattening, ¼" mesh screen is ideal for drying racks, and will help to eliminate any flattening that may occur

### CURING INFORMATION:

1. Store the flowers in airtight containers and burp daily
2. Product should be in a container with a ratio of air to flower of 75% flower to 25% air
3. Burp the containers and mix the product every 24 hours for 30 - 60 minutes, and for 5-10 days
4. Container humidity should start at roughly 50-60% and taper down to 30 - 40% over the curing process



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## DEBUDDER DRY TRIMMING

### DRYING INFORMATION:

1. Hang dry the plants in a humidity-controlled environment for 5-7 Days, or until the plants and room homogenize to an level of 50 - 60% RH
2. After the plants are dried remove and individualize the stems
3. If you need to shuck and trim on the same day, dry the plants to 30-40% RH, run the Debudder on a very slow speed and expect a small amount of breakdown to your top colas
4. If shucking and trimming on the same day, be sure to cure the product after trimming, for at least 5-7 days
5. Drying is complete when the stems bend to 90 degrees before snapping, the outside of the flowers are slightly crispy, the inside of the flowers are spongy, and the stems are more yellow than green
6. Over-drying the flowers prior to shucking, may cause the flowers to occasionally break apart, effecting quality and yield
7. Rehydrate the plants in order to implement the debudder or automated shucking when plants are completely/over dried

### SHUCKING INFORMATION:

1. Adjust the speed control dial between 15-20
2. Dialing in the speed for each strain is crucial, especially when shucking dry product, slower isn't always better, try to find the speed that allows the product to really pop off the stem
3. It is crucial when shucking dried flowers that you shuck them at the proper moisture level to avoid any excess breakdown of the colas
4. We recommend shucking the plants when they have been dried to 50-60% RH
5. **If plants have become too dry to safely use the debudder, rehydrate the plants to a level where breakdown is not an issue**

### CURING INFORMATION:

1. After the flowers have been shucked, place them into sealed containers to cure
2. Sweat and burp the shucked flowers in preparation for trimming, in a controlled environment, until the shucked flowers homogenize to roughly 40-50% RH
3. Curing the flowers right after they have been shucked, and with the leaves on, will improve your trim and concentrates quality, as well as homogenize the small flowers moisture level, with the larger, ultimately improving the trimming process



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## DEBUDDER HOW TO OPERATE

1. Properly prep the product by removing all fan leaves and individualizing the stems from the stock
2. Be sure to leave 2-3" at the base of the stem, so that the rollers have something to grab onto
3. If there is a flower at the base of the stem, simply pull that first flower off by hand and then feed the stem into the appropriate hole
4. Although the debudder can handle stems with multiple offshoots, we recommend that you individualize them as much as possible
5. Feed the stem into the appropriate hole, ideally the stem is slightly smaller than the hole size, do not feed a small stem through the largest hole, as it will pull some of the flower through and will not pluck the flower properly
6. If a branch you are feeding into a hole has multiple offshoots be sure to feed it into a hole size that will accommodate the thickness of the offshoots
7. Grouping several small stems together and feeding them through an appropriate larger size hole is an option
8. If a stem only has one or two flowers on it, don't bother feeding it into the machine, pluck them by hand and move on
9. Utilize the reverse switch if a cola is too large and cannot be pulled through the hole, cut the top off, and switch back to forward
10. Continue feeding stems into the appropriate holes, and remember to empty the stem collection bin
11. For quicker production use two people on either side of the machine
12. You can optionally shuck and trim the product with the fan leaves on, and although it may be faster, keep in mind that this will change the quality of your trim, due to excessive chlorophyll in the fan leaves, it is best to remove the fan leaves before the harvest, and ideally during the flushing period
13. FOR THE BEST TRIMMING RESULTS, ENSURE THAT THERE IS NO EXCESS STEM AT THE BASE OF THE FLOWER, AND THAT EACH FLOWER HAS BEEN COMPLETELY INDIVIDUALIZED AND MOST IMPORTANTLY, TO AVOID CROWS FEET, THAT ALL FAN LEAVES HAVE BEEN REMOVED



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## DEBUDDER HOW TO CLEAN

- Remove dust and debris using compressed air
- Clean unit with denatured alcohol and a rag
- Clean rollers with a rag and denatured alcohol
- Use a plastic putty knife to scrape residue off rollers
- Optionally you can unscrew the feed hole tips to remove and soak in alcohol



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## DEBUDDER SPECIFICATIONS

### 1. TABLETOP

- a. Weight - 75 lbs..
- b. Ship Weight - 90 lbs.
- c. Assembled Dimensions - 22"L x 27"W x 22"H
- d. Ship Dimensions - 32"L x 32"W x 27"H

### 2. INDOOR

- a. Weight - 90 lbs.
- b. Ship Weight - 105 lbs.
- c. Assembled Dimensions - 22"L x 43"W x 43"H
- d. Ship Dimensions - 32"L x 32"W x 48"H

### 3. OUTDOOR

- a. Weight - 130 lbs.
- b. Ship Weight - 150 lbs.
- c. Assembled Dimensions - 32"L x 43"W x 43"H
- d. Ship Dimensions - 32"L x 32"W x 48"H

### 4. MATERIAL EXPOSED TO PRODUCT

4. Aluminum 6061 - Food Grade
5. Silicone

### 5. UL CERTIFIED COMPONENTS

4. Control Box
5. Motor
6. Power Cord

### 6. POWER

4. 120 or 240 VAC
5. 60 HZ
6. 3 Phase
7. 1.9 Amps
8. 101 lb.-in. Torque
9. 170 RPM
10. 228 Watts





# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## EZ TRIMMER HOW IT WORKS

### INTRODUCTION

The Ez Trimmer removes unwanted leaves from cannabis and hemp flowers and is the only solution that delivers trim quality that surpasses manual methods. The key to the Ez Trimmers superiority, is that it allows the user to adjust the way in which it trims, for wet and dry product, as well as different strains, sizes, and growing methods. The Ez Trimmer is not only quiet, lightweight, and filters your trim, it has the following unique adjustable controls, that make it second to none: Flower Movement, rotation and separation, Wet and Dry Trimming, batch time, and Trim Collection

Multiple Ez Trimmers provide advantages to a single larger trimmer:

- a. 1 person can easily operate 4 Ez Trimmers
- b. Redundancy
- c. Trim multiple strains simultaneously
- d. Adjust the trimming dynamics as needed for different strains and moisture levels simultaneously

### FLOWER MOVEMENT THROUGH AIRFLOW AND SUCTION

The Ez Trimmer has a fan blade directly below the cutting blade that does several things. First, the fan blade creates suction to pull the leaf down through the grate and into the filtration bags. Second, it creates a controllable vortex of air that assists in moving and dispersing the product along the grate as it's trimmed. Lastly, it agitates the clipped leaf in the filtration bags, helping to remove the trichomes as they are filtered through the bags. The suction and airflow created by the fan blade is controlled using the airflow controller and by the two inner lids on the top of the machine. Adjusting the airflow properly is key to achieving an efficient trim cycle and eliminating potential damage. The two inner lids can be opened or closed, to increase or decrease air flow and suction. With one or both inner lids open, the suction will increase, and the airflow will decrease. This allows you to create stronger airflow for the movement of wet or heavier product or less airflow, and more suction, for slowing down the movement of dry or delicate product. The airflow controller is used to prop open the back inner lid, allowing you to fine tune the amount of airflow and suction. Adjust the airflow controller according to the strain, size, and density of the wet or dried product. The air flow is considered properly adjusted when it predominately moves the product around the grate, while still allowing the silicone fingers to separate and roll the product. Properly adjusting the airflow and suction eliminates excessive handling and friction.



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## EZ TRIMMER HOW IT WORKS

### FLOWER ROTATION AND SEPARATION

The rotating soft silicone fingers and delicate brushes are used to help separate and roll the product along the grate. Both the direction and speed can be controlled. Slowing down the brushes will minimize agitation on delicate product, while running the brushes on higher speeds, or in reverse - which is the opposite direction of the airflow, can create more agitation, and quicker trim cycles. The goal is to adjust the brushes, and the airflow, so that the product is being moved by the air, then rolled and separated by the brushes. Wet flowers, and specific dry strains, require more agitation than others, and thus, require the brushes to be run at higher speeds. Typically, we recommend that you run the brushes in the forward direction, and at higher speeds. Again, this is something you will want to adjust based on whether you are trimming wet or dry product, as well as for different strains and densities. Properly adjusting the rotation and separation will reduce batch times.

### WET AND DRY TRIMMING MODES USING THE GRATES AND CUTTING BLADE

- PROPERLY ADJUSTING THE CUTTING BLADE AND IMPLEMENTING THE GRATES FOR WET AND DRIED PRODUCT WILL ENSURE A QUALITY TRIM, WITHOUT EFFECTING THE STRUCTURE OF THE FLOWERS.

#### *Wet and Dry Grates:*

To accommodate trimming both wet and dried flowers, the Ez Trimmer comes standard with a wet grate and dry grate. The surface of the grates have openings that allow the suction to pull the leaves down through the grate, and then into the trim collection bags. The size of the openings is larger for wet trimming and smaller for dry trimming. The dry grate with smaller openings ensures that dried flowers do not break apart or fall through the grate during trimming. The wet grate, with the larger openings, ensures that the leaves of fresh flowers pass through the openings and receive a close trim from the cutting blade. Optionally, dried flowers that aren't quite dry enough for the dry grate, can sometimes be trimmed using the wet grate.

#### *Cutting Blade:*

The cutting blade can be raised and lowered to accommodate trimming. The cutting blade needs to be raised to its closest point for wet trimming and should be removed for dry trimming. As with all dry trimmers, the leaves are trimmed by way of friction and agitation and not by a cutting blade. When dry trimming, the cutting blade only trims the flowers stems, and minces the leaf. We recommend removing the cutting blade prior to dry trimming in order to avoid mincing the trim too fine.



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## EZ TRIMMER HOW IT WORKS

### BATCH TIME

Controlling the amount of time the flowers are in the trimmer is imperative to producing quality results. With other trimmers, you put the product in one end, and then you don't really know how well it has been trimmed until it comes out the other end. The Ez Trimmer allows you to watch the product as it is being trimmed and adjust cycle times based on what you see during each batch. Every strain and batch are different, so it is important to adjust accordingly. Proper batch time control ensures that flowers do not get over or under trimmed.

### TRIM COLLECTION AND FILTRATION

Our patented and unique filtration system comes with four collection bags with varying micron levels for separating and collecting the leaf as it's trimmed. The first bag collects the larger leaf and stem, containing and separating the heavier chlorophyll-based product. The second bag collects your sweet leaf and is excellent for extraction and pre-rolls. The third bag is your B grade keif, and the fourth bag is your A grade keif. Separating the trim and keif, can create more control over potency levels when extracting. These bags can also be utilized as a dry sifter. Properly utilizing the trim collection will eliminate waste, improve potency and profitability of your concentrates. Optionally, you can use just the 1<sup>st</sup> bag and 4<sup>th</sup> bag and allow the sugar trim and keif to collect in the same bag,

“When the Ez Trimmer’s components are adjusted properly and well grown flowers are properly dried and prepped, the expected results should be superior quality to manual methods, and in half the time, and with half the staff.” – Joe Black – Owner, Founder and President of Ez Trim



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## EZ TRIMMER HOW TO ASSEMBLE

1. Remove plastic and cut banding to remove box from pallet
2. Remove the chute, stand, drum with motor assembly, and filtration bags from the box
3. Unlatch the outer lids and remove the drum knobs and maintenance kit
4. Remove the plastic protection from both sides of the lids and fasten the draw latches
5. If trimming wet or dry be sure to check that the correct grate is installed, the grate is labeled on the top front
6. Extend the lower stand from the upper stand until the snap buttons engage (ensure all four snap buttons have engaged)
7. Insert the 2 drum knobs into the holes of the stand side plates and screw into the drum side mounts (Do not tighten yet)
8. Grab the drum knobs and drum and lift the drum until the stand is underneath, spread stand legs until fully opened
9. Secure the drum knobs and engage the plunge pins
10. Dial in the blade (Please reference the steps below for dialing in the blade)
11. Disengage the plunge pins and loosen the drum knobs 2-3 turns
12. Rotate the drum upside down and tighten the knobs
13. Install the four filtration bags by stretching them around the bottom of the drum and above the link lock latches starting with bag #1 (the bags have number tags at the top of one of the side hems, keep the bags inside out)
14. Loosen the drum knobs, rotate the unit back to upright, tighten the drum knobs and engage the plunge pins
15. Slide the flower collection chute into the guides on the front of the machine
16. Place a collection bucket or bin below the chute
17. Plug in the 4-pin power cord from the control box into the main motor junction box
18. Plug the unit into a 120 VAC power outlet
19. The Ez Trimmer is ready for use



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## EZ TRIMMER HOW TO DIAL IN THE CUTTING BLADE

1. This is something you want to preferably do before attaching the collection bags; however, you can make fine tune adjustments even after attaching the collection bags
2. There are 4 blade height adjustment knobs on the motor assembly that we use to raise and lower the cutting blade, for most strains we will adjust the cutting blade as close as we can to the bottom of the grate, for strains that have long nodes and or pistols we may need to back the blade down slightly to ensure we avoid damaging the flower
3. We want to start the adjustment process by inspecting the distance between the blade and grate and ensuring that the blade is approximately 1/8" away from the grate, make sure that the gapping is consistent around the circumference of the grate
4. Start by opening the inner lids and turning the main motor on
5. We'll raise the blade by turning the knobs counterclockwise (when looking down from the top of the unit), we want to make sure we do it evenly, a couple of turns on the front 2 knobs and then a couple of turns on the back 2 knobs, we will repeat this process until we make very slight contact with the bottom of the grate, once contact has been made, back that knob down 1/4 turn, repeat this process, front to back several times, If at any time through the trimming process you hear the blade start to rub against the grate simply back the knob down 1/4 turn at the contact point
6. Close the 2 inner lids and ensure that the blade is not rubbing against the grate when the lids are closed, turn the main motor off and inspect the gapping between the blade and the grate ensure that it is consistent at all four adjustability points and around the circumference of the grate
7. Always ensure there is a green felt pad (extras can be found with the tool kit) on top of the cutting blade prior to dialing in the blade and before trimming
8. The felt pad supports the grate while trimming and ensures that the blade and grate do not rub in the center
9. Replace the felt pad often and as needed or when worn



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## EZ TRIMMER HYBRID TRIMMING & DRY TRIMMING

### OPERATION

Note: The most important aspect of hybrid trimming, and dry trimming, is moisture level in the flowers. Too much and it won't trim, too little and the flowers will become fragile. We recommend checking for dryness by disturbing one of the outer leaves, if it bends it is not dry enough. The leaves need to snap when disturbed. Typically, the product is ready to trim when the plants and the room have homogenized to an ambient RH of 30 - 40%. The best way to ensure proper moisture levels is to supply adequate air flow on the product when drying. With proper airflow you can dry the outer leaves while still maintaining some sponginess to the inside of the flowers.

### STEP 1 - DRYING INSTRUCTIONS:

1. Remove the fan leaves 1-2 days before harvesting your plants and before trimming
2. Hang dry the plants and screen dry the flowers in a humidity-controlled environment for 5-7 Days or until the plants and room homogenize to an ambient level of 50 - 60% RH
3. Take your dried plants and remove the main branches from the stock

### STEP 2 - SHUCKING INSTRUCTIONS:

1. Next remove the flowers from the stem using the Debudder, it's best to individualize the stems as much as you can
2. Shucking should occur after Drying is complete
3. We recommend shucking the plants when partially dried to 50-60% RH, **then continue drying and curing the shucked flowers prior to trimming**
4. It is crucial when shucking dried flowers that you shuck them at the proper moisture level to avoid any excess breakdown of the colas, we recommend shucking between 50-60% RH
5. If you need to shuck and trim on the same day, and prior to curing, dry the plants to 30 - 40% RH, run the debudder on a very slow speed and expect a small amount of breakdown to your top colas

### STEP 4 - CURING INSTRUCTIONS:

1. Place the shucked flowers into sealed containers for curing
2. Sweat and burp them in a controlled environment until shucked flowers homogenize to roughly 30 -40% RH
3. Curing the flowers with the leaves on will improve your trim and concentrates, as well as homogenize the small flowers moisture level with the larger
4. If shucking and trimming on the same day, be sure to still cure the product, post trimming, for at least 5-7 days
5. Drying and curing to proper RH levels is the most important part of the harvesting process, and will ensure great smell and taste if done properly
6. IT IS CRUCIAL THAT THE PRODUCT IS DRIED AND PREPPED PROPERLY PRIOR TO TRIMMING, THIS MEANS, ALL OF THE FLOWERS HAVE BEEN INDIVIDUALIZED, AND THAT THE OUTER LEAVES SNAP, AND DO NOT BEND AT ALL WHEN DISTURBED



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## EZ TRIMMER HYBRID TRIMMING & DRY TRIMMING

### STEP 4 - TRIMMING INSTRUCTIONS:

1. To start trimming, turn on the main motor, then set the brushes to forward and adjust the speed to high or your preferred setting
2. Changing the speed and or direction of the brushes will affect the amount of agitation to the product, different strains require different amount of agitation, find a setting that works best for each strain, we recommend starting on forward and fast
3. Place roughly 300-400 grams of flowers into the machine, the amount of product should fill up the shoot when trimming is complete
4. Use the air flow controller and lids to adjust the amount of suction and vortex inside the drum, with popcorn buds or lighter strains you may need to run the entire cycle with one or both of the inner lids open, with dense or heavier strains you may need to run the entire cycle with both inner lids closed, find the amount of airflow that works best for each strain, we recommend starting with the inner lids closed or with the back lid cracked
5. Allow the product to trim for 30 – 60 seconds depending on the strain, when the product is done trimming, tilt the drum down, open the drum gate, turn the rotor motor to forward and allow the product to exit into the chute, opening and closing the back inner lid will speed up this process
6. When the drum is empty, close the drum gate, tilt the drum upright, and reload the machine
7. While the next batch is running, open the chute gate and allow the product to empty into an appropriate container.
8. Optionally - install the chute sock around the base of the chute to avoid having to open and close the chute hatch when emptying
9. **AVERAGE THROUGHPUT** for every Ez Trimmer should be 15,000 grams (33 LBS) per hour of dried finished flower

### TIPS AND TRICKS:

1. Clean filtration bags and motor cover often to avoid residue
2. Thoroughly cleaning the machines after EACH use is imperative to longevity and producing a quality product over time. Please refer to the accompanied cleaning information or watch our cleaning videos. <https://www.eztrim.com/2020/04/08/video-library/>
3. Ensure the product is dry enough for trimming (leaves should snap when disturbed)
4. Adjust airflow with inner lids open and closed to optimize internal flow rate
5. Adjust rotor speed and direction to optimize trim cycle
6. Be sure to utilize the dry trimming grate (If the product is still too moist to trim, try trimming using the wet trim grate)
7. Proper preparation is key to quality trimming - individualize all flowers, remove fan leaves and keep no more than an 1/8" to 1/4 "of stem at the base of the flowers
8. If the product isn't trimmed in under a minute, the product is too wet
9. If the product is still too wet and it is time to trim, open containers the product is being stored in and increase airflow on the product
10. There is a balance of quality and speed for every strain, some strains require zero touch up, while others need some, find the optimal trimming cycle time and touch up required that creates the best quality and efficiency
11. Quality control or touch up should be happening simultaneously



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## EZ TRIMMER WET TRIMMING

### OPERATION

#### STEP 1 - SHUCKING INSTRUCTIONS:

1. Remove the flowers from the stem using the Debudder, it's best to individualize the stems as much as you can
2. Adjust the Debudder speed control dial to the appropriate speed for the product, we recommend 30 - 50% and higher, for wet product
3. Dialing in the speed for each strain is crucial, slower isn't always better, try to find the speed that allows the product to really pop off the stem
4. When shucking wet flowers, be sure to shuck and trim immediately after harvesting, do not allow the harvested plants to sit for more than a few hours before shucking and trimming, doing so can cause the leaves to curl in, and flowers to squish, effecting trim quality

#### STEP 2 - TRIMMING INSTRUCTIONS:

1. To start trimming, turn on the main motor, then set the brushes to forward and adjust the speed to high or your preferred setting
2. Changing the speed and or direction of the brushes will affect the amount of agitation to the product, different strains require different amount of agitation, find a setting that works best for each strain, we recommend starting on forward and fast
3. Place roughly 200-400 grams of flowers into the machine
4. Use the air flow controller and lids to adjust the amount of suction and vortex inside the drum, typically when wet trimming you will run the entire cycle with both inner lids closed, or perhaps the back inner lid cracked
5. Allow the product to trim for 1-2 minutes depending on the strain, when the product is done trimming, tilt the drum down, open the drum gate, and allow the product to exit into the chute, opening and closing the back inner lid will speed up this process
6. When the drum is empty, close the drum gate, tilt the drum upright, and reload the machine
7. While the next batch is running, open the chute gate and allow the product to empty into an appropriate container
8. Optionally - install the chute sock around the base of the chute to avoid having to open and close the chute hatch when emptying
9. As one batch is being trimmed, the operator should be inspecting and touching up the previous batch as necessary
  - a) If a strain requires a longer trimming cycle time, and in order to avoid sacrificing quality, decide if it makes more sense to just allow the trimmer to do 80% of the trim quickly and touch up the rest with scissors
  - b) There is a balance of quality and speed for every strain, some strains require zero touch up, while others need some, find the optimal trimming cycle time and touch up required that creates the best quality and efficiency
  - c) Quality control or touch up should be happening simultaneously with trimming and with the proper team should not be a bottleneck in the process (to avoid bottlenecking and if necessary, increase the number of employees on quality control)
  - d) Quality Control, or touch up, can also be done post drying, often, the handling process of drying and curing will remove any excess leaf naturally
- I. **AVERAGE THROUGHPUT** for every Ez Trimmer should be 20,000 grams (44 LBS) per hour of fresh flower or 5,000 grams (11 LBS) per hour of dried finished flower
- II. For clients that prefer hand trimming and hang drying or smaller operations that don't need the capacity of the Ez Trimmer we offer the Wander Trimmer for fast and efficient trimming of your wet product.





# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## EZ TRIMMER WET TRIMMING

### STEP 3 - DRYING INSTRUCTION:

1. After the product has been trimmed, place the flowers on drying racks for 5-7 days in a climate-controlled room with plenty of airflow, and until the product and room homogenize to 50-60% RH
2. ¼" mesh screen is ideal for drying racks, and will help to eliminate any flattening that may occur

### STEP 4 – CURING INSTRUCTIONS

1. After the product is dried, place the flowers in sealed containers to cure, for no less than 5-7 days, burping 1-2 times daily for 30-60 minutes, and until the container's RH level reaches 30 - 40%
2. Drying and curing to proper RH levels is the most important part of the harvesting process, and will ensure great smell and taste if done properly, even when trimming wet

### TIPS AND TRICKS :

- Debud and trim within 2-3 hours of harvest and before the leaves get squished or start to curl in
- Avoid piling the wet shucked flowers too high or for too long, as it can squish the product making it difficult to trim and effecting quality
- Dialing in the blade effectively will dramatically change the closeness of the trim, the blade should be no less than 1/16" - 1/8" from the bottom of the grate at all points
- Proper preparation is key to quality trimming - individualize all flowers, remove fan leaves and keep no more than an ½" to 1/4 "of stem at the base of the flowers
- If a strain requires a longer trimming cycle time, and in order to avoid sacrificing quality, decide if it makes more sense to just allow the trimmer to do 80% of the trim quickly and touch up the rest with scissors
- There is a balance of quality and speed for every strain, some strains require zero touch up, while others need some, find the optimal trimming cycle time and touch up required that creates the best quality and efficiency
- Quality control or touch up should be happening simultaneously with trimming and with the proper team should not be a bottleneck in the process (to avoid bottlenecking and if necessary, increase the number of employees on quality control)



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## EZ TRIMMER

### HOW TO USE AND MAINTAIN THE FILTRATION BAGS

The filtration bags are used to catch and separate the fan leaves and stem from the sugar leaf and keif. The leaf is pulled down through the grate and through the 4 filtration bags by the fan on the main motor. Because proper airflow is critical in this process, **IT IS EXTREMELY IMPORTANT TO KEEP THE BAGS AND MOTOR COVER CLEAN.** The following are tips and tricks for using and maintaining the filtration bags and motor cover:

#### FILTRATION BAGS

1. When installing the filtration bags be sure to install the #1 bag (large openings) first, the bags should sit directly above the link lock latches and around the base of the drum
2. Install bags 2, 3 then 4 in the same manner
3. Install the filtration bags with the hem side out (inside out), this inhibits build-up in the hem and makes them easier to clean
4. Empty the filtration bags often while trimming and prior to the first bag being overfilled
5. To clean and empty the filtration bags during the trimming process
  1. place a container below the bags
  2. remove the bags from the trimmer
  3. empty one by one, starting with bag #1, into a separate container,
  4. Using your hands, rub the material together to quickly clean
6. To clean the filtration bags and motor cover after trimming:
  1. Using a 50-gallon drum, garbage can or the trimmer drum, pull the filtration bag around the drum until it conforms around it
  2. Spray the filtration bag with Denatured alcohol or heavy duty simple green and spray clean using a pressure washer or high-pressure hose
  3. Inside out the bag and repeat the cleaning process

**Note:** You can optionally take the bags to the laundromat to clean, but if doing so, be sure the bags are free of loose debris and do not run the wash and dry cycles on HOT

#### MOTOR COVER

1. To remove the motor cover, uninstall the cutting blade and fan blade
2. Clean the motor cover by soaking and spraying clean
3. **CLEAN THE MOTOR COVER OFTEN TO AVOID DAMAGING THE MOTOR**
4. Reinstall the motor cover hem side out (inside out), be sure that it is properly seated around the base of the motor



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## EZ TRIMMER

### HOW TO REMOVE THE MAIN MOTOR

1. Unplug the power chord from power source
2. Unplug the 4 pin wire harness from the motor junction box
3. Remove the filtration bags
4. Ensure all 6 lid latches are fastened
5. Loosen the drum knobs, rotate the drum upside down and tighten the drum knobs
6. Unlatch the 4 link lock latches holding the motor assembly
7. Grabbing the motor plate pull up and wiggle the motor assembly out of the drum
8. If removal is difficult tap each motor bracket from underneath to free it from the drum, prior to grabbing the motor plate
9. Once the motor assembly is free, place it blade side up with Adjustment knobs down on a flat surface
10. You can now service the motor assembly components
11. To reinstall the motor assembly, align the junction box on the motor arm with the x's on the inside of the drum and grabbing the motor by the motor plate lower the assembly into the drum
12. Be sure to align the 4 adjustment brackets with the bracket buttons on the inside of the drum
13. Latch the 4 link lock latches ensuring they are locked and that the adjustment brackets are seated tightly to the bottom of the drum
14. Occasionally oil and inspect the link lock latches, the blade adjustment knobs and the adjustment brackets



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## EZ TRIMMER

### HOW TO SHARPEN & REPLACE THE CUTTING BLADE

1. Remove the motor assembly from the drum
2. Using an 1/8" hex head bit remove the 3 blade screws
3. Place the blade on a flat surface
4. Wrap 400 grit wet/dry sandpaper around a small wooden block, dip into water before starting
5. Sand in line with cutting edge without holding the block too far out over the edge, sand the entire blade
6. Flip the blade over and repeat, Do not roll the edge
7. Wipe the blade clean and place it on the blade hub
8. Install the 3 blade screws, **BE SURE NOT TO OVERTIGHTEN TO AVOID STRIPPING**
9. Ensure there is a fresh felt pad installed on the top center of the blade
10. Check the blade for trueness by spinning the blade with your hand and checking for any wobble
11. Reinstall the motor assembly into the drum



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## EZ TRIMMER HOW TO REPLACE THE GRATE

1. Remove the motor assembly from the drum
2. With the drum in the upside-down position, unscrew the grate screws
3. Place one hand through the drum gate opening, sandwich the grate with both hands and push the grate up at an angle
4. Place the new grate down in the same manner you removed it
5. Be sure that the label of the gate – “Wet grate or Dry grate” is positioned inside the gate window opening and that all screw holes are positioned over the rubber
6. Reinstall the grate screws and ensure that you do not over tighten them but that the screw heads are completely flush with the grate
7. Reinstall the motor assembly
8. If there is a gap between the drum and the grate at the window gate opening, use a small amount of silicone to seal it



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

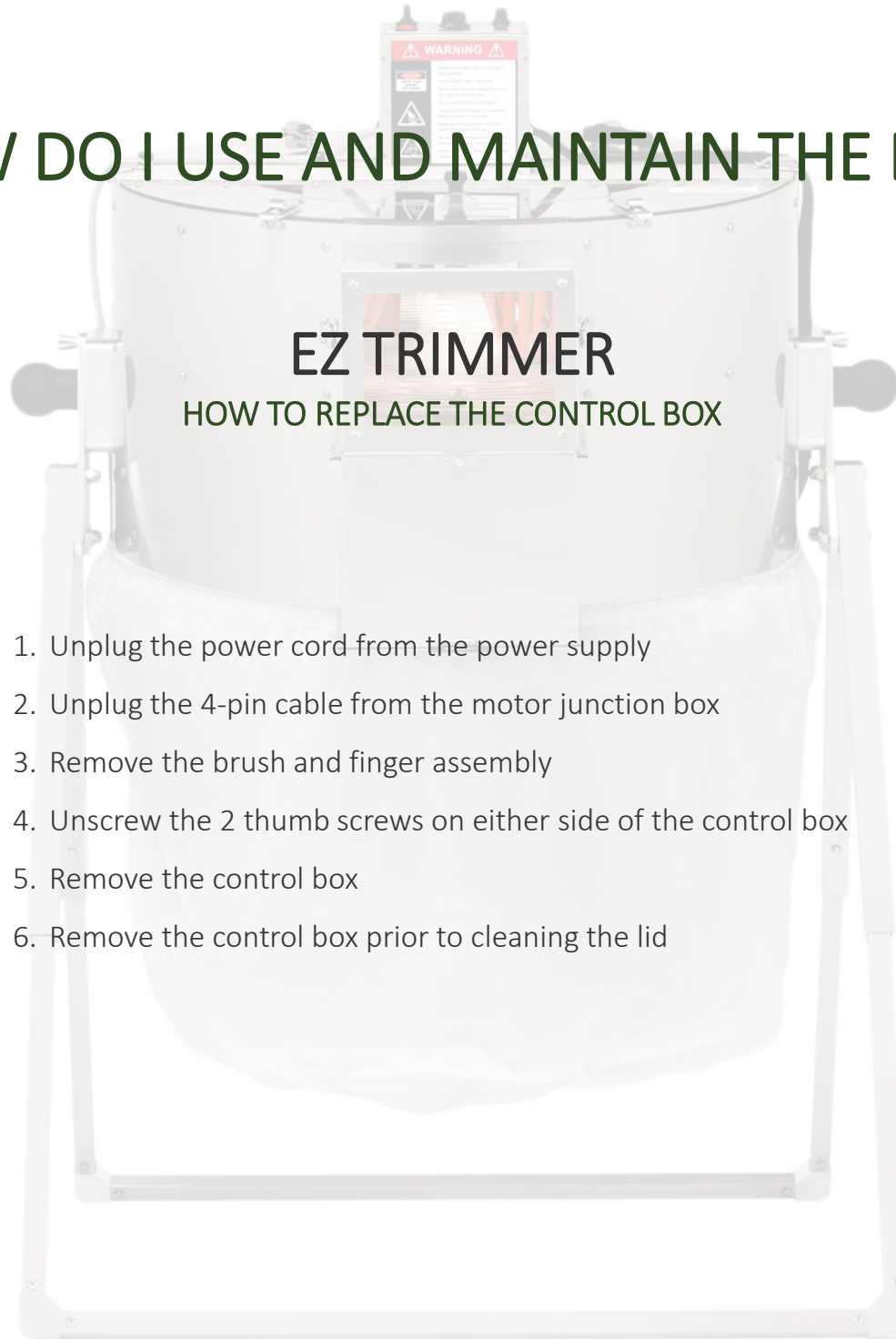
## EZ TRIMMER

### HOW TO REPLACE THE SILICONE FINGERS & BRUSHES

1. Ensure the drum knobs are tight
2. Unlatch the front 4 lid draw latches – keep the back 2 latched
3. Rotate the brush arms until the cotter pin tab on the brush plate is facing the front of the drum
4. Open the front outer lid and rotate the control box 90 degrees back – the lid should be stacked in a half moon position on top of the drum
5. Pull out the cotter pin, and grabbing the brush top plate, jiggle and pull the brush assembly until it is free from the motor shaft
6. To replace brushes or fingers, loosen the set screws on the brush arm, pull the brush or fingers out, reinstall the new fingers or brush, and tighten the set screws
7. Sleeve the brush top plate back onto the motor shaft ensuring the holes in the top plate and shaft are aligned
8. Reinstall the cotter pin
9. Rotate the lid and control box back down and secure the lid latches
10. Occasionally oil the brush plate hub and motor shaft to avoid sticking



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?



## EZ TRIMMER

### HOW TO REPLACE THE CONTROL BOX

1. Unplug the power cord from the power supply
2. Unplug the 4-pin cable from the motor junction box
3. Remove the brush and finger assembly
4. Unscrew the 2 thumb screws on either side of the control box
5. Remove the control box
6. Remove the control box prior to cleaning the lid



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## EZ TRIMMER HOW TO CLEAN

1. These are the items you will need to perform a proper cleaning
  - a) Pressure washer
  - b) Air compressor with air nozzle
  - c) HD Simple Green (Purple)
  - d) Denatured alcohol
  - e) Paper towel or rags
  - f) hot water heater basin (for soaking)
  - g) Spray bottles
  - h) Small soft bristle brush
  - i) Flat head screwdriver
  - j) Maintenance kit with Allen keys that came with unit
2. We will start the process by removing the chute, drum gate and lid assembly, rotate the drum upside down unlock 4 latches and remove the motor assembly
3. With the appropriate Allen key remove the 3 screws on top of the cutting blade. Gently set the blade into the bottom of the drum, loosen the 2 set screws on the blade hub and slide the blade hub off of the motor shaft.
4. With a flat head screwdriver remove the 3 screws on the fan blade and set the fan blade into the bottom of the drum
5. Again, using the correct Allen key loosen the set screw on the rotor hub and sleeve the hub off the motor shaft
6. To remove the motor mount brackets, unscrew the blade height adjustment knobs, You can also use a screwdriver to clean out the inside of the knobs
7. Remove the motor cover and place the brackets and motor cover inside of the drum
8. If you have an air compressor and using an air nozzle blow off any loose debris from the components
9. Spray the bottom of the lid plate with heavy duty simple green and scrub the plate using a scotch bright pad and wipe clean, spray the bottom side of the lids with denatured alcohol and wipe clean with paper towels, flip the lid over and repeat the process, It's important to only use denatured alcohol and paper towels when cleaning the various plastic components, as other cleaners and abrasive pads can cause damage
10. Next, we will clean the top of the lid plate, it's helpful to use a toothbrush to clean the hard-to-reach areas, now spray, clean and wipe dry the top side of both lids, again using only denatured alcohol and paper towels.
11. Spray the aluminum components on the motor assembly with the heavy duty simple green and using a toothbrush scrub the various parts, wipe clean and dry, flip the unit on its side and repeat the process
12. Spray the chute components with heavy duty simple green and wipe clean
13. Apply the alcohol on the plastic liberally, when cleaning the areas with heavier build-up.
14. If you don't already have one, we highly recommend Investing in some type of pressure washer. This will enable you to quickly clean the entire unit when you're finished trimming, as well as periodically cleaning the blade and grate during the trim session





# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## EZ TRIMMER HOW TO CLEAN

- a) Pour heavy duty simple green into a reservoir, one large enough to house the blade and grate for soaking, we recommend using either a plastic or metal water heater tray, fill the rest of the reservoir with water at about a 1 to 15, simple green to water ratio, place the blade, the motor mount brackets and the rotor assembly into the reservoir to soak
- b) Now spray the stand, the drum, the fan blade and the top of the rotor assembly with the heavy-duty simple green, the first items we will pressure wash is the bottom side of the drum and grate, ensure that you thoroughly remove all of the build-up, this is always easiest and quickest to do as soon as you're done trimming and while the plant material is still fresh, clean and rinse the stand and drum
- c) Rotate the drum to the upright position and apply the heavy-duty simple green and spray the drum and grate until clean
- d) Walk the unit down to clean the underside of the stand, stand the unit back up, rotate the drum back upside down and give the entire unit a final rinse
- e) Spray clean the top and bottom side of the fan blade, spray and clean the rotor assembly, be sure to spray both sides of the fingers as well as the top and bottom, clean the motor mounting brackets, use your foot to stabilize the parts as they're being sprayed
- f) Next, we'll clean the cutting blade, thoroughly clean the top and bottom side of the blade, Make sure that all of the plant matter has been removed, this part of the process can also be implemented when cleaning just the blade and grate during your trim session
- g) Apply the heavy-duty simple green to the motor cover and spray clean
- h) Now we are ready to assemble the unit
- i) Start by attaching the rotor hub to the shaft on the motor control box, make sure the set screw is tight and seated properly
- j) Attach the motor cover and place the fan blade on the hub, it's best if you install the fan blade, with the screw hole positioning relative to the motor shaft with a flat head screwdriver install and tighten the 3 screws
- k) Sleeve the cutting blade hub over the motor shaft, aligning the 2 set screws with the dimples on the shaft, make sure the set screws are properly seated and tighten firmly
- l) Place the cutting blade on the hub and install the screws, it's very important that you don't over tighten the cutting blade screws as they will self-tighten due to the rotation of the motor
- m) Screw on the motor mount brackets until the bolt is flush with the top of the bracket, repeat the process for all four brackets
- n) Be sure to align the junction box on the motor assembly with the x's on the inside of the drum
- o) Reinstall the filtration bags, rotate the drum to the upright position and fasten the lid, Install the drum gate, the chute and you're ready to go back to trimming
- p) Will clean the filtration bags with the pressure washer, start by wrapping the innermost bag around the outside of the drum, rinse the loose material off with water, spray with some heavy-duty simple green, rinse, flip the bag inside out and rinse again, we will repeat this process for all the filtration bags
- q) You'll want to pressure wash the bags before cleaning the unit to avoid dirtying the drum and stand with the material from the bags
- r) When you're done cleaning the bags, hang them up to dry
- s) If you have any questions regarding this process, please don't hesitate to contact us



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## EZ TRIMMER SPECIFICATIONS

### SPECIFICATIONS

1. Weight - 110 lbs.
2. Ship Weight - 125 lbs.
3. Assembled Dimensions - 32"L x 43"W x 43"H
4. Ship Dimensions - 32"L x 32"W x 48"H

### MATERIAL EXPOSED TO PRODUCT

1. Aluminum 6061 - Food Grade
2. Stainless Steel - Food Grade
3. Silicone - HDPE
4. Nylon

### UL CERTIFIED COMPONENTS

1. 5 wire harness(Control Box)
2. Dayton Gear Motor

3. FUSE HOLDER
4. MOTOR SPEED CONTROLLER
5. CONTROL BOX MICRO CONTROLLER
6. 9' POWER CHORD
7. MEANWELL POWER SUPPLY
8. MAIN MOTOR
9. CAPACITOR
10. POWER
11. 120 VAC
12. 60 HZ
13. SINGLE PHASE
14. 10 AMPS



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## EZ TRIMMER PARTS LIST

### LOWER STAND

1. Cross bar x 2
2. Elbows x 4
3. Sides x 4
4. Upper stand
5. Sides x 4
6. Mounting plate with plunge pins x 2
7. Drum knobs x 2

### DRUM

1. Rubber inner drum x 2
2. Aluminum inner drum liner x 1
3. Gate window guides with plates x 2
4. Wet grate x1
5. Dry grate x 1
6. Drum side mounts x 2
7. Draw latch keepers x 8
8. Link lock latches x 4

### LID

1. Outer lid - front x 1
2. Outer lid - back - x 1
3. Inner lids with knobs x 2
4. Airflow controller x 1
5. Draw latches x 4
6. Spring draw latches x 2
7. Control box with power cords x 1
8. Lid plate x 1
9. Adjustment bracket buttons x 4

### MOTOR

1. Main motor x 1
2. Cutting blade with hub x 1
3. Fan blade with hub x 1
4. Motor plate x 1
5. Motor legs x 4
6. Adjustment brackets x 4
7. Adjustment knobs with bolts and collar x 4
8. Link lock latch keepers x 4
9. Junction box with power cord x 1
10. Motor cover x 1

### CHUTE

1. Chute x 1

### FILTRATION BAGS

1. Bag 1 x 1
2. Bag 2 x 1
3. Bag 3 x 1
4. Bag 4 x 1



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## SORTER

### HOW IT WORKS

#### HOW IT WORKS

The Bud Sorter is available in 2 different sizes: The Sorter and The Sorter XL. The sorters let you accurately, efficiently, and safely sort your buds into shake, popcorn, small, medium, and large buds. Without vibration or moving parts, your buds stay in pristine condition. The Bud Sorter is typically used as a quality control station. As the buds come out of the trimmer they are loaded onto the sorter for a quick inspection and any necessary touch-up. From there they are sorted by brushing the product down the grates and into their appropriate container.

The Bud Sorter is intended to be utilized post trimming (when trimming dry) and pre-drying (when trimming wet). Additional grates can be custom made to your preferred size. The Bud Sorter will increase your efficiency when packaging, by separating similarly weighted flowers, and increase consistency for drying, by separating similarly sized flowers.

- Sorting Grate Sizes come standard in the following sizes (custom sizes can be made in 1/8" increments): 1/4", 1/2", 7/8", 1 1/8", 1 5/8"
- The Sorter XL has a 75% larger sorting area and more than double storage capacity than the standard Sorter



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## SORTER

### ASSEMBLY & OPERATION

#### ASSEMBLY - SORTER

1. Remove plastic and cut banding to remove from pallet
2. Ensure the containers are free of loose debris and slide them into the rails on the bottom side of the frame
3. Place the grates into the rails on the top side of the frame from small to large
4. If desired lock the casters to prevent the table from moving

#### ASSEMBLY – SORTER XL

1. Remove plastic and cut banding to remove from pallet
2. Ensure the containers are free of loose debris and place them on the shelf
3. Place the grates into the rails on the top side of the frame from small to large
4. The container shelf can be placed on the top of the sorter to create a work surface when not sorting
5. If desired lock the casters to prevent the table from moving

#### OPERATION

1. Load product onto the first grate in the sequence
2. Brush product back and forth and down the grates until all product has fallen into the containers
3. Containers slide in and out from the side of the sorter for removal
4. **Average** throughput for every Sorter should be 40,000 grams (88 LBS) per hour of dried finished flower

#### TIPS AND TRICKS

1. Brush product back and forth on the grates a couple of times before moving on to improve results
2. Lift up on the containers before sliding out to decrease snagging
3. Use the Bud Sorter as your Quality control station
4. Sorts over a pound in under a minute



# HOW DO I USE AND MAINTAIN THE EQUIPMENT?

## SORTER

### CLEANING & SPECIFICATIONS

#### CLEANING AND MAINTENANCE

1. Wipe down with denatured alcohol and a rag
2. If you have a pressure washer, you can use it for a quick rinse or to make your wipe down easier

#### MATERIAL EXPOSED TO PRODUCT

- A. Aluminum 6061 - Food Grade
- B. Stainless Steel - Food Grade
- C. Plastic Totes - HDPE

#### SPECIFICATION – SORTER XL

- A. Weight - 150 lbs.
- B. Ship Weight - 150 lbs.
- C. Assembled Dimensions - 100”L x 28”W x 48”H
- D. Ship Dimensions - 101”L x 32”W x 53”H
- E. 5 x 27-gallon containers
- F. Grate size – 19” x 25”
- G. Grate slot sizes: 1/4”, 1/2”, 7/8”, 1 1/8”, 1 5/8”

#### SPECIFICATION - SORTER

- A. Weight - 115 lbs.
- B. Ship Weight - 150 lbs.
- C. Assembled Dimensions - 84”L x 19”W x 48”H
- D. Ship Dimensions - 84”L x 32”W x 53”H
- E. 5 x 35-quart containers
- F. Grate size – 15” x 16”
- G. Grate slot sizes: 1/4”, 1/2”, 7/8”, 1 1/8”, 1 5/8”



# HOW DO I ORDER EQUIPMENT AND PARTS?

## CONTACT INFORMATION

[HTTPS://WWW.EZTRIM.COM/CONTACT/](https://www.eztrim.com/contact/)

### EQUIPMENT

- <https://www.eztrim.com/product-category/equipment/>
- (303) 635-6281
- [info@eztrim.com](mailto:info@eztrim.com)

### PARTS

- <https://www.eztrim.com/product-category/parts/>
- (303) 635-6281
- [customerservice@eztrim.com](mailto:customerservice@eztrim.com)

### WARRANTY

- Ez Trim offers a 3-year manufacturer's warranty - please keep record of the serial number
- If you have any questions, comments, or need assistance with parts, operating tips or technical support please call (303) 635 - 6281 and dial extension 3. We are more than happy to answer any questions you might have, please do not hesitate to contact us. You will speak to a live person who wants to help you. We pride ourselves on our customer service.
- (303) 243-2715

### SALES

- Learn about our products & services, discuss your order with our sales director, or submit a wholesale inquiry
- <https://www.eztrim.com/product-category/equipment/>
- (303) 635-6281
- [info@eztrim.com](mailto:info@eztrim.com)

### CONTACT INFORMATION:

- [customerservice@eztrim.com](mailto:customerservice@eztrim.com)
- [info@eztrim.com](mailto:info@eztrim.com)
- (303) 635-6281
- [www.eztrim.com](http://www.eztrim.com)



# HOW CAN I GET SUPPORT FROM EZ TRIM?

## CONTACT INFORMATION

[HTTPS://WWW.EZTRIM.COM/CONTACT/](https://www.eztrim.com/contact/)

### CONSULTATION & TRAINING

- **Needs Analysis:** Free for everyone always
- **Phone Consultation:** Free for all clients always
- **Onsite Implementation:** Free for clients who purchase an Ez Trimmer
  - – A la carte \$1500 in Colorado, \$2000 in continental US, \$2500 in Canada, Mexico, Alaska and Hawaii, \$3000 in the Caribbean.
- **Project Management:** Cost is determined on a case-by-case basis, Contact us to discuss options and availability
- <https://www.eztrim.com/consultation-and-training/>
- (720) 520-2687

### SHIPPING

- Lead times are generally 5-7 days
- Shipping days are generally Tuesday & Thursday.
- We can only expedite parts shipments. They are shipped via FedEx.
- Complete units are shipped via various freight companies.
- Freight shipments cannot be expedited, but you may guarantee the estimated delivery date for a small fee.
- <https://www.eztrim.com/2020/04/01/shipping-and-lead-times/>
- (303) 635-6281

### TECHNICAL SUPPORT

- Request technical support or assistance choosing the proper replacement part(s)
- <https://www.eztrim.com/contact/>
- (303) 243-2715

### SALES

- Learn about our products & services, discuss your order with our sales director, or submit a wholesale inquiry
- <https://www.eztrim.com/product-category/equipment/>
- (303) 635-6281