



## SPECIFICATIONS AND SOP

The **PYTHON** is the world's fastest and highest volume dry trimmer. The Python's unique patented bladeless technology allows it to trim from 400 to 1200 pounds per hour (depending on model) while producing a well-trimmed flower and clean(uncontaminated) trim. The Python's trimming mechanism unlike other trimmers brands that utilize blades allows the flowers/buds to quickly and yet gently trim each other, producing a more natural hand trimmed looking flower.

The Python is manufactured as a heavy-duty agricultural machine with all high-quality food grade parts, including stainless steel construction, food grade plastics and heavy-duty motors.

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### BLADELESS | FAST | EFFECTIVE

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#### PREREQUISITES TO USING THE PYTHON

1. Your product must be properly bucked down for the Python to work most effectively. Prepare your flower by taking all of the buds from stems and removing large water leaves. The better the product is prepared the better it will trim.
2. Your buds must be sufficient dried - the sugar leaves must be BRITTLE. The inside moisture can be 7-12% moisture but the outside **MUST** be brittle for The Python to work effectively.
3. You must use the Python in a low-humidity area. If the humidity is too high in your facility or area, the buds will rehydrate. If this happens, put them in a humidity-controlled environment to bring down the moisture content. The Python will not work properly when dried buds are in a humid environment.

## SPECIFICATIONS

### Materials

The Python mainframe and feed hopper are made of 100% stainless steel and all other parts are food grade material. Each unit comes with various size food grade plastic and stainless steel meshes for versatility.

### Dimensions

#### Model 400

Main Trimmer Unit ..... 9' 10" L x 4' W x 6' 1" H

Detachable hopper with gravity feed ..... 9' 3" L x 4' 2" W x 7' 6" H

#### Model 600

Main Trimmer Unit ..... 10' 10" L x 4' W x 6' 6" H

Detachable Hopper with Auger and gravity feed ..... 11' 3" L x 5' W x 8' 2" H

#### Model 1200

Main Trimmer Unit ..... 12' L x 4' W x 6' 6" H

Detachable hopper with Auger and Connector ..... 11' 3" L x 5' W x 8' 2" H

[Note: Earlier Models from 2019 of the Python 2.0, 3.0 and 4.0 had slightly different sizes and specs. Contact Tom's Tumbler with any questions.]

**Allowances:** We recommend allowing 5 feet on the loading end of the trimmer/hopper on all sides to allow room for loading untrimmed flowers and filling totes or bags with trim and trimmed buds. The Python should be fed continuously so it is important to have hundreds of pounds of material ready to load.

Allow 4-5 feet at the end of the Python for catch bags to catch trim and buds, and to have bags/bins ready to replace. Remember the Python processes very quickly.

## Motors

Various horsepower heavy duty motors drive the two augers and trommel. The Python requires three 110 AC, 15-amp breaker outlets. Only one motor per outlet is recommended.

## Features

- High volume trimming: up to 1200 pounds per hour, depending on the model
- High volume screw auger feed hopper
- Auger draws flowers into gravity feed
- Gravity feed gently drops flowers in the first section of trommel
- Trommel rotation speed can be adjusted with motor speed control (30 to 35 RPM is recommended)
- Food grade plastic auger catches trim underneath trommel and carries it to the end where catch bag or bin collects
- Easy to use
- Trimmed flowers exit the trommel out the end side into your catch container
- Sugar leaf trim is carried out the end by the auger into your catch container
- Removable see through panels allow you to view the process while also acting as a safety barrier when machine is in operation
- Extremely quiet
- Optional kief collector
- Gentle on your product





### **Moving your Python**

- Heavy tires and castors wheels allow for easy transportation. If moving by truck allow for 7' height clearance.

### **Optional Add on features:**

- Kief Collector - High power clean catch kief collector is available to add on to your Python. Hosing at the top of the Python allows you to vacuum catch any kief that comes off in the trimming process.

### **Maintenance**

- Inter-changeable meshes are removable and washable.
- A clean catch vacuum is recommended to clean out machine and augers
- Tom's organic, plant-based Resin Remover is recommended to clean and maintain the Python

### **Warranty**

Full 3-year warranty on the Python with fast response for replacement parts or service. See details in warranty.

## SETTING UP AND USING YOUR PYTHON

### Read before setting up!

**1. UNPACKING YOUR PYTHON.** The hopper should be rolled up and aligned with feeder end of the Python trimmer gravity feed or inserted into Python directly (specific models have this). Push brakes on.

**2. ELECTRICAL POWER AND PLUGS.** On hopper, find two cords with two different plug styles. Now find similar but male/female chords/plugs coming off control box. Plug each plug into corresponding plugs that match and fit. Next, find and plug in last two plugs coming out of control box. Plug these in to two separate outlets with separate breakers ideally. (115 Volt AC socket with 15-amp breakers). Before turning on any speed controls, find the four plexiglass panels and install into J channels on both sides of main frame. Panels slide up into top J channels and then slide down into bottom J channels. This will enclose cylinder for safety reasons and still allow visibility into Cylinder while it trims. **NOTE: Never turn any of the speed controls on without the plexiglass panels installed (to protect users from rotating chamber).**

**3. MOTORS.** The speed control on the feed hopper will control the screw auger that brings the flower/buds to the gravity chute. The control box on the main frame will have two speed control units – one for the trough screw auger that brings the sugar leaf trim out of the mainframe and one for the trommel's rotation speed

**4. SETTING BAFFLES ON CYLINDER.** Each section of the cylinder will have hourglass shaped adjustable baffles that will control the flow rate of buds/flowers as they pass through cylinder. These baffles control how long the buds/flowers stay in each section of the cylinder which allows them to trim each other as they tumble over and against each other in each cylinder. **NOTE: baffles are only one of the fine-tuning adjustments on the PYTHON.**

**Recommended:** As a starting point, set the opening for each baffle to 50%. To do this, remove the clear panels and nets (if attached) loosen nut that locks baffles and rotate until recommended setting, then tighten very tight with two wrenches. The baffles should not be able to rotate after nut is tightened.

**5. ATTACHING MESH TO EACH SECTION OF CYLINDER.** The various nets that come with your Python can be mixed and matched on the trommel to customize your trim. To install mesh on each section, first remove flat bars by removing nuts (these flat bars hold each mesh in place and are located on outside each section of cylinder). After flat bars are removed place holes of end of mesh over threaded short rods. Wrap mesh around cylinder rings and overlap and on to threaded short rods again. Place bar across metal mesh on rods and reattach nuts to hold bar in place. Tighten with a wrench.

To install the plastic mesh, wrap plastic mesh around each chamber. Outside of mesh should be overlapping on to rings of cylinder on each side. Make sure mesh is no more than 1.5 inches over lapping on ring so that small 7-inch diameter wheel will not run over mesh when cylinder ring is turning.

Wrap stainless steel hose clamps and around mesh to secure to cylinder rings. Tighten two hose clamps per mesh which also secures mesh to cylinder rings. Repeat to secure mesh on each section. **Again, do not forget to have mesh aligned on cylinder rings so mesh/hose clamp will not impede cylinder from rotating.** Install plexiglass panels for safety and to contain dust/pollen.

**6. SETTING SPEED CONTROLS.** Turn speed control that moves trough auger underneath trommel to full speed. Turn speed control that rotates trommel to rotate about 30



to 35 RPM (approximately 80% of full speed and adjust from there). Lastly, turn on speed control that rotates large screw auger in feed hopper to desired speed. You can adjust speed control while flowers are being fed into hopper and then into cylinder.

## 7. SAFETY PRECAUTIONS!

- *Always have plexiglass panels in place while running the Python.*
- *Never place hands in hopper or near screws while they are moving (hands and arms can be seriously injured)*
- *Never lean against machine or place hands near moving parts while it is running.*
- *Never take off removable END SHOOT (this is where trimmed buds come out opposite end of main frame than control box) off while machine is running*
- *Never open top door on hopper feed tube while machine is running. This for access to clean auger and inside hopper tube.*

8. **PREPARING THE BUDS/FLOWERS.** Make sure flowers/buds to be trimmed are bucked down (free of large water leaves, branches) and sugar leaves are **dry and brittle** (i.e., sugar leaves should not be flexible at all). Dryness inside the buds should be 7 to 12 percent moisture ideally but again sugar leaves need to be brittle for the Python to allow bud/flowers to trim each other as they tumble and move through each section of the cylinder(trommel). Make sure you trim in an environment where humidity is low and will not rehydrate the sugar leaves on the flowers. Rehydrating sugar leaves will make them flexible again and then they will not trim properly or at all and may jam the feed auger tube.

9. **FEEDING THE PYTHON.** All motors should be on and running their corresponding components (augers and trommel). You are now ready to feed the PYTHON. To test a quality run, and to make fine adjustments, make sure you feed a few hundred pounds into the feed hopper and through the Python. This can be accomplished by continuously feeding the hopper as to keep it relatively full. The first section of the cylinder should always be at least half full to ensure proper trimming.

## 10. FINE TUNING ADJUSTMENTS.

A. All components (screw augers and trommel) have adjustable speeds controls for fine tuning. The trommel should always be rotating between 30 and 35 RPM. The screw auger feed should be adjusted so product flow in first section is always around half full. The conveyor and top screw auger (anti-bridge auger) in hopper should be on full speed.

B. Various size and type of material for meshes allows for more and less aggressive trimming, as well as different size flowers to be trimmed.

C. The Python also has an adjustment to change the angle of the trommel allowing gravity to slow down or speed up the trimming process. Gravity is used to move the buds through the chambers from the beginning to the end of the Python as the Python is angled optimally to support this movement. This can be accomplished by utilizing a car jack which would be placed underneath the tab on the shoot end of the machine. Jack up the front end of the machine and remove bolts on each adjustable leg. Change the length of the legs to the height you desire, lower the machine and replace bolts in lower bolt holes.

## 11. USING YOUR PYTHON

**KEEP HANDS CLEAR OF THE HOPPER AUGERS!** Simply pour your material into the hopper and let the augers do the work of feeding the Python. **Do not use your hands or tools to move product around once in hopper.**

The Python should be fed dried flower into the feed hopper on a continuous basis. The speed at which the flowers flow into the Python is adjustable, but **a continuous flow of flower is needed** for the Python to work best. One should adjust speed control on feed auger so the first section is always at least half full. The concept being the buds trim each other better when there is more weight in each section. The weight and tumbling of the buds rubbing against each other is the mechanism through which the tumbler works.

Begin by familiarizing yourself with the motor controls and the speed of the hopper auger and trommel. These are all adjustable to help you control the speed of the flow into and through your Python

The Python processing speed has various adjustments. The controls for these are in the metal motor box on the side of the Python. All motors have adjustable speed controls, thus allowing for fine adjustment of the flow of flowers into machine as well as how fast flowers trim each other. Press green to turn the motor on and red to stop it. Turn the black button to adjust the speed.

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## **QUICK STEPS TO USING THE PYTHON**

- 1) Be sure to have Properly prepared product
  - Bucked properly, water leaves removed, no sticks / stems
  - Dried properly – 7-12% interior moisture level, sugar leaves brittle enough to snap off if pulled back
  - Dense flowers will trim better than lightweight waify flowers – but you can adjust the Python based on the product going in
- 2) Loading and Capacity
  - Load into Feeder Hopper to fill up mainframe (keep a steady stream)
  - Mainframe must be  $\frac{1}{2}$  to  $\frac{3}{4}$  full
  - Flow rate will affect the trim level (baffles, angle of the mainframe, speed of motor)
  - Different net types will affect the trim level
- 3) Baffles properly set
  - First section wide open, second section closed approx. to  $\frac{1}{3}$ , 3<sup>rd</sup> section set to  $\frac{1}{2}$
  - Explain how adjustments change the flow rate (which adjusts the trim)
- 4) All nets properly attached
  - Choose the elongated stainless steel, or food grade plastic  $\frac{1}{2}$ " and  $\frac{1}{4}$ " or any combination.
- 5) Install clear removeable plexi-glass windows
- 6) Load flower catch chute onto the end of the mainframe

7) Feeder Hopper and Mainframe pushed together

8) Set up Kief collector, if purchased (available for purchase any time)

- use Y connector to attach ducting to both sides
- connect ducting to vacuum
- plug in motor

9) All Python motors plugged in - The Python requires three 110 AC, 15-amp breaker outlets. Only one motor per outlet is recommended.

- Feeder Hopper Motor set initially to 70%, then reduced to 60%, then 50% as mainframe fills
- Mainframe Motor set to 30-35 RPMs – approx. 80% power
- Trim Trough Motor set to 100%

10) Ready to load product into Feeder Hopper

- will need one person to monitor the gravity feed
- one person will need to monitor the flow rate and adjust motor speeds as necessary

11) Fill mainframe to ½ to ¾ full

- approx. first 20 lbs will need to be run through again

12) Will need one person to switch out bins for trimmed bud and one different person to switch out bins for the trim

- will need 3-5 bins ready for trimmed flower
- will need 3-5 bins ready for the trim

13) Can run trim through a Tom's Tumbler batch machine or the Python to separate the popcorn sized buds from the sugar leaf trim (if desired)

**Please contact Tom with any questions at any time about your Python at 800-601-0797 or directly at 818-590-1303.**

Cleaning

1. remove clear panels and remove nets
2. Brush and vacuum
3. Wash down with water or alcohol
4. You can take out feeder hopper auger and trough auger for deep cleaning (not necessary for the Python to operate properly, only if you are worried about cross-contamination bet

Thank you for your purchase.

*For more information about Tom's Tumbler Python, please visit our web site at [www.TomsTumbleTrimmer.com](http://www.TomsTumbleTrimmer.com)*