



Nugsmasher PRO Operating Instructions

Thank you for the purchase of your Nugsmasher PRO. We have designed this unit for the purpose of effortless rosin extraction for up to 1/4 Pound of flower. When setting up your unit, please ensure your stand is suitable for the weight of the machine (212 lbs). Also note that the unit gets hot and the high temperature hydraulic heat plates are capable of bodily injury if not used in a safe manner. (Please do not attempt to open your unit casing as this will void your factory warranty.)

While our products are sturdy and built to last, they are also heavy and shippers can be rough during handling. If there are any problems from shipping and your item does not deliver safely please contact us direct so we can resolve the matter immediately.

As always, please feel free to call us at any point with any questions or concerns at 951-272-9800 or Contact@Nugsmasher.com.



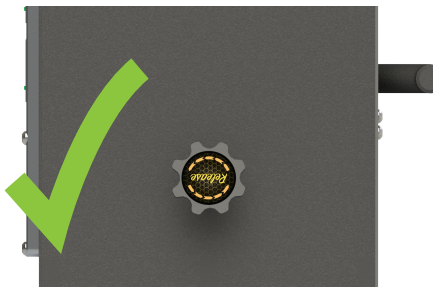
Quick Start Guide:

- Your release knob is packaged in foam near the heat plates and will be installed on the right side of unit towards bottom of press.
- Notice the keyed end of the release valve as it slides through side of unit and can be installed easily by looking at rear of machine under manual handle sticker.
- Rotating release knob clockwise till it is tight will allow press plates to be raised via manual handle or pneumatically with 90-100 psi air compressor (3-5) gallon small compressor is ideal.
- Rotating handle counter clockwise will allow plates to separate and open – never open beyond one turn to release plates as damage and loss of fluid may occur.

KEEP RELEASE VALVE IN CLOSED "CLOCKWISE POSITION" WHEN NOT IN USE

Please note that under any circumstances do not turn release valve more than 1/2 a turn in the open (counter clockwise) direction as this will void your warranty and may result in hydraulic fluid loss. Also make sure when not in use or stored, the release valve must be in closed tight (clockwise) position.

WARNING! Never turn your release knob more than 1/2 full turn counter clock wise from tight.



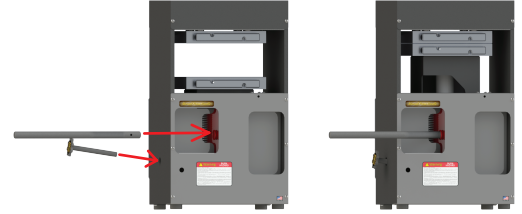
Turned to the max!



Turned too much!

Please Note: Your release knob is factory designed to be at a slight upward angle.

NUG SMASHER



Operating Unit:

Before your unit is turned on, (If using as manual operated pump) insert handle into rear inset opening on left side of unit. Notice there is a round tube that your shaft handle will be inserted into for plate compression operation and a ¼-20 set screw to hold in place. The Nugsmasher Pro has 3 heating elements in each plate and top and bottom plates are individually controlled by your PID controllers, it is recommended you keep top and bottom plates at same temperature for best results.

Set power switch to the "on" position. You will notice on your control screen there are two rows of digits. The top is the current temperature of the heat plates. The bottom is the set temperature. The Pro comes factory preset at 200 degrees Fahrenheit and will take approximately 10 minutes to reach set temperature depending on your location.

Adjusting Temperature:

To adjust the plate set temperature press the blue "<</AT" button once and you will notice the first row of digits start to flash. Press the "<</AT" button again and it moves over one more digit. Continue to press the AT button until the number you want to change is flashing and then press the green up or down arrows to select desired temperature setting. Once you have changed to your desired temperature press the set button once to lock in temperature. It is not advised to go into any other programming modes as your unit has been factory preset for optimum settings. Note: US models are set for Fahrenheit and all international orders are set in Celsius unless specified otherwise.

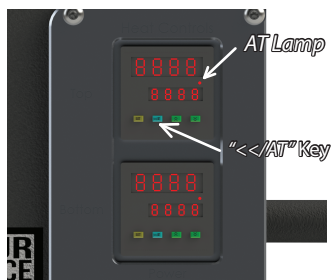


Set power switch to the "on" position. You will notice on your control screen there are two rows of digits. The top is the current temperature of the heat plates. The bottom is the set temperature. The PRO comes preset at 200 degrees Fahrenheit and will take approximately 5-7 minutes to reach set temperature depending on your location.

Pneumatic Operation:

The Nugsmasher PRO can be used with a manual pump handle or pneumatic operation with push button actuation of plates. The Nugsmasher PRO requires a compressor (not included) with a minimum psi of 110 psi and 3-5 gallon air capacity. Note the larger the supply tank the less you will have your compressor cycling on and off. Attach compressor and airline to input line which comes rolled up and recessed on rear inset panel on right side of machine.

Once you set up your Nugsmasher Pro in the desired operating location, you can auto tune your temperature controls if the factory settings aren't holding temps within expected tolerance levels. (Ideal temp range is 180-220F for flower presses)



To Initiate Auto Tune:

Hold the "<</AT" key for more than 3 seconds until the green AT lamp (light) comes on and the auto tune process will begin. The unit will heat up and cool down around the set temp approx. 3 times and will adjust its settings each pass to fine tune itself. Auto tune is complete when AT lamp (light) turns off. (Note the factory settings as follows P) 3.00 I) 240.0 D) OFF)

For other settings refer to temperature controller instructions, manual enclosed.



Ideal Temperature:

The ideal pressure and temperature will vary depending on strain and growing techniques so don't be discouraged on your results when you press new material. We recommend when pressing a new strain to start at approx. 220 degrees for flower and notate your yield results (weight of material in vs. rosin out). Perform additional test presses and drop 5 - 10 degrees per press until you notice your yield percentage starting to drop. Adjust back to the previous temp and that will be your ideal temp for that strain. It is advised to have a thermal temp gun to verify and check temperatures from time to time. Use a small piece of electrical tape as the high gloss on heat plates will affect accurate temp readings if using a thermal temp gun.

Loading Micron Bags:

Nugsmasher extraction bags, are recommended for optimal yield and clean quality rosin. Our bags are hand-made and packaged in the USA! Nugsmasher extraction bags are specifically designed to work with the weight of fresh cured flower and are labeled accordingly at: **3.5 g** (1.1g-3.5g), **7 g** (3.6g-7g) and **14 g** (7.1g-14g). This assumes the bags are loaded (BTS) or bottle/barrel-tech style (upright so that you end up with the round coin like puck once fully pressed). This perfected method allows you the ability to put the proper weight of flower into the bag and get a consistent extraction every time. This method also applies the proper pounds per square inch of pressure (PSI) on your product and eliminates the guess work.

3.5g bag (1.1g-3.5g) = 1.5"-1.6"Diameter

7g bag (3.6g-7g) = 2"-2.2"Diameter

14g bag (7.1g-14g) =2.4"-2.7"Diameter

As the micron gets smaller the diameter gets larger, this is the reason for the variance in the diameter numbers above. We prefer to use 160 micron for fresh flower, as flower dries we go down in micron screen size (for dry flower use 90 micron). Micron size determines the diameter (surface area) of the smashed bag. For nugs 1g and smaller no bag is necessary.

For more details about loading Bottle-Tech and/or Barrel-Tech style (BTS) please visit Nugsmasher on YouTube:<https://www.youtube.com/watch?v=0os-vcD7CLK0> Remember "Fire in fire out"!

Pressure:

Once your unit reaches set temperature you're ready to start pressing. Once you have your material between **parchment paper** (do not use wax paper!), slowly start raising plates by pumping handle. It is key to do this slowly to properly build heat into your material. The entire pressing process should be between 90-120 seconds depending on your strain. Your Nugsmasher Pro is most capable of over pressing your material as the mistake made most with new extractors. There are several videos available online on the Nugsmasher official Instagram account as well as the Nugsmasher YouTube channel that are very beneficial for techniques and tips of your rosin extraction. Note the leverage designed with your pump handle is only designed for hand operation. Do not use and other leverage device or foot to push handle down as you will cause damage not covered by warranty.

Make sure you have the handle inserted properly or the press pump won't work, the handle piece sits on the lower end when inserted.

For more tips and tricks; follow our pages on Instagram and Facebook. Also, Google and YouTube are the best resources for "how to press" video tutorials ..and remember, practice makes perfect!

*Note, customer is liable for any shipping charges or damage as a result of sending unit to PMG for service or warranty repair. It is recommended you hold onto the packaging that comes with the unit. Please feel free to contact us with any questions



Nugsmasher PRO

Plate Pressure vs. Gauge Pressure

Plate Pressure:

The applied plate pressure is determined by the extracted material's surface area (bag, size and quantity) and the applied pressure to the extraction (Gauge P.S.I. Reading)

Example See chart below

-VS-

Gauge Pressure:

Gauge pressure (psi) is measured from the hydraulic rams fluid pressure. This is the applied pressure and should be adjusted to the surface area to achieve optimum results.

Example See chart below

| Nugsmasher Pro | PSI | PSI | PSI | PSI | PSI | |
|-----------------|------|---------|---------|------|------|-----------------------|
| PSI ON Material | 500 | 750 | 1000 | 1250 | 1500 | One 3.5G Bag (BTS) |
| Gauge Reading | 258 | 387 | 516 | 645 | 774 | |
| PSI ON Material | 500 | 750 | 1000 | 1250 | 1500 | Two 3.5G Bags (BTS) |
| Gauge Reading | 515 | 774 | 1031 | 1289 | 1547 | |
| PSI ON Material | 500 | 750 | 1000 | 1250 | 1500 | Three 3.5G Bags (BTS) |
| Gauge Reading | 773 | 1160 | 1547 | 1934 | 2321 | |
| PSI ON Material | 500 | 750 | 1000 | 1250 | 1500 | One 7G Bag (BTS) |
| Gauge Reading | 459 | 687 | 917 | 1146 | 1375 | |
| PSI ON Material | 500 | 750 | 1000 | 1250 | 1500 | Two 7G Bags (BTS) |
| Gauge Reading | 917 | 1375 | 1834 | 2292 | 2751 | |
| PSI ON Material | 500 | 750 | 1000 | 1250 | 1500 | Six 7G Bags (BTS) |
| Gauge Reading | 2751 | 4126 | 5502 | 6877 | 8253 | |
| PSI ON Material | 500 | 750 | 1000 | 1250 | 1500 | One 14G Bag (BTS) |
| Gauge Reading | 716 | 1075 | 1432 | 1791 | 2149 | |
| PSI ON Material | 500 | 750 | 1000 | 1250 | 1500 | Two 14G Bags (BTS) |
| Gauge Reading | 1433 | 2149 | 2865 | 3582 | 4298 | |
| PSI ON Material | 500 | 750 | 1000 | 1250 | 1500 | Four 14G Bags (BTS) |
| Gauge Reading | 2865 | 4298.65 | 5731.54 | 7164 | 8598 | |

example illustrated below

Nugsmasher Pro consistency chart PSI to surface area bag selection

Surface AREA KEY

Nugsmasher extraction bags, our bags are recommended for optimal yield and clean quality rosin. Our bags are hand-made in the USA! Nugsmasher extraction bags are specifically designed to work with the weight of fresh cured flower together with our extraction machines and are labeled accordingly at: 3.5 g, 7 g and 14 g this assumes the bags are loaded (BTS) or bottle/barrel-tech style (upright so that you end up with the round coin like puck once fully pressed). This perfected method allows you the ability to put the proper weight of flower into the bag and get a consistent extraction every time. The reason for this is that it allows for the proper pounds per square inch, pressure (PSI) on your product and eliminates the guess work.

3.5g = 1.5" Diameter = 1.77" in surface area
 7g = 2"-2.2"Diameter= 3.14" in surface area
 14g=2.4"-2.7"Diameter= 4.91" in surface area

We prefer to use 160 micron for fresh flower, as flower dries we go down in micron screen size (for dry flower use 90 micron).

NOTE: As the micron gets smaller the diameter get slightly larger. example: 90 micron is about 5% larger at the end of your extraction

EXTRACTION EXAMPLE:

Circled Above on chart

One 3.5g bag:



Surface Area Pressure: 750 PSI

There is only one 3.5g bag that has the total surface area of around 1.77in²

Gauge Pressure: 387 PSI

To extract your material at 750 PSI with a surface area of 1.77in (one 3.5g bag) it would equal 387 PSI on your gauge.

Two 3.5g bag:

Surface Area Pressure: 750 PSI

There are two 3.5g bags that have the total surface area of around 3.54in

==
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 in quality and yield percent results

Gauge Pressure: 774 PSI

To extract your material at 750 PSI with a surface area of 3.54in (two 3.5g bag) it would equal 774 PSI on your gauge.

