

## TECHNICAL SPECIFICATIONS

Model No.:	CEDBTT-UNIVERSAL
Input Voltage / Frequency:	100-240V 50Hz / 60Hz
Output:	60 Watt
Drum Volume:	4.5 Liter
Dimensions:	W 27 cm x D 29 cm x H 32 cm W10.75" x D 11.5" x H 12.25"
Net Weight:	12 kgs (26.4 lbs)

## WARRANTY

Please register your CED Brass Tornado at [www.CEDhk.com/tornado](http://www.CEDhk.com/tornado) within 30 days of your purchase to secure this warranty coverage.

If the CED Brass Tornado Tumbler breaks due to defective parts or workmanship, CED will replace it within the first two years from purchase. This warranty does not cover any failures attributable to abuse, mishandling, failing to follow operating instructions, alterations, or accident. If the tumbler is accidentally broken, CED will repair it at a cost of components and labor. All claims must be accompanied by a copy of the original sales receipt or written proof of purchase, and be returned to CEDUSA in a properly packaged manner with shipping charges prepaid.

We are proud of our products and we want you to be too.

Returns of warranty service should be directed directly to Competitive Edge Dynamics USA. Contact CEDUSA for a return authorization (RMA) to be provided.



Competitive Edge Dynamics USA  
P.O. Box 486  
Orefield, PA 18069-0486 USA

Phone : (888) 628-3233 / (610) 366-9752  
Fax : (610) 366-9680  
Email : [customer.support@cedhk.com](mailto:customer.support@cedhk.com)  
Website : [www.CEDhk.com](http://www.CEDhk.com)

If shipping by UPS or Fed Ex, use:

Competitive Edge Dynamics USA  
2908 Betz Court  
Orefield, PA 18069

## QUICK START GUIDE

# CED BRASS TORNADO Pro Series Tumbler II








Please register this CED Brass Tornado at  
[www.CEDhk.com/tornado](http://www.CEDhk.com/tornado)  
within 30 days of purchase





## 1 FILL-UP

- Pour in the provided 3.5 lbs of Stainless Steel pin media into the drum.
- Fill the drum with brass up to a maximum 75-80% of the drum capacity.
- Fill the drum with water, leaving at least a minimum margin of 20% air in the drum for optimum results. Therefore, do NOT fill the drum completely!
- Add in 1/2 tsp. (7.5ml) each of Lemi Shine and Lyman Turbo Sonic Solution for our recommended best cleaning results.
- Place the clear SOLID CAP onto the drum securely making sure the rubber "O" ring is in proper place, and fasten the locking bar and latch securely.
- Place the drum onto the CED Brass Tornado shown below, making sure there is no leakage at the seams of the clear solid drum cap.

## 2 CLEAN

- Switch on the power  ON .
- Set the SPEED to 40 - 60 RPM with  and  . (Smaller loads 40 - 50 RPM and larger loads 50 - 60 RPM)
- Set the DIRECTION CHANGE INTERVAL as desired by pressing  . Recommended interval from 5 - 7 minutes.
- Set the TIMER to the desired cycle by pressing  . 30 to 45 minutes for smaller loads and up to 60 minutes for larger loads.
- Turn on the ALARM by pressing  . The alarm indicator will light up accordingly.
- Press  to begin the cleaning cycle.

## 3 RINSE

- When the ALARM beeping sound is heard, it indicates the completion of the cleaning cycle.
- Press  to stop the buzzing sound.
- Turn off the tumbler by switching it off  .
- Set the drum upright, and loosen the latch.
- Remove the latch and locking bar, remove the solid drum cap and replace it with the FILTER CAP, fastening into place with the locking bar and latch.
- Drain out the water from the drum and add in warm clean tap water through the filter cap.
- Shake the drum to rinse the brass within, until there are no more bubbles from the cleaning solution. It may be necessary to repeat the rinsing process two to three times.
- Drain out the water for the last time.

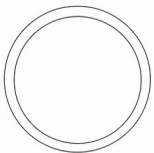
## 4 SEPARATE

- Set the drum upright, and remove the filter cap.
- Pour the brass and pin media into a media separator basket (sold separately).
- Do not over fill the capacity of the media separator.
- Spin the basket as fast as possible in one direction for a couple of minutes, and then in a reverse direction to separate the media pins from the brass.
- This can be done with no water in the media separator. But for best results, fill the media separator with clean water to a level that covers the bottom 30% of the media separator basket. This will allow the water to separate the media pins from the brass and the pins to drop to the bottom of the bucket easier.
- If water is used, then once the spinning process is done, drain out the water from the media separator and spin the brass in the basket one last time for a few seconds to force out any remaining water inside the brass pockets.
- Pour the media pin back into the drum, but leave the drum open for a day or two to allow air drying before long term storage.
- The cleaned brass are now ready for drying.

## 5 DRYING

- For optimal drying result in less time, CED recommends CED Brass Dryer (Sold Separately).
- The CED Brass Dryer comes with five trays, which can hold up to 750 pcs of pistol brass or 400 pcs of rifle brass in each drying operation.
- Allow drying of brass in less than an hour.
- Distribute the brass evenly in each tray. Each tray can hold up to 150 pcs of pistol brass, or 80 pcs of rifle brass.

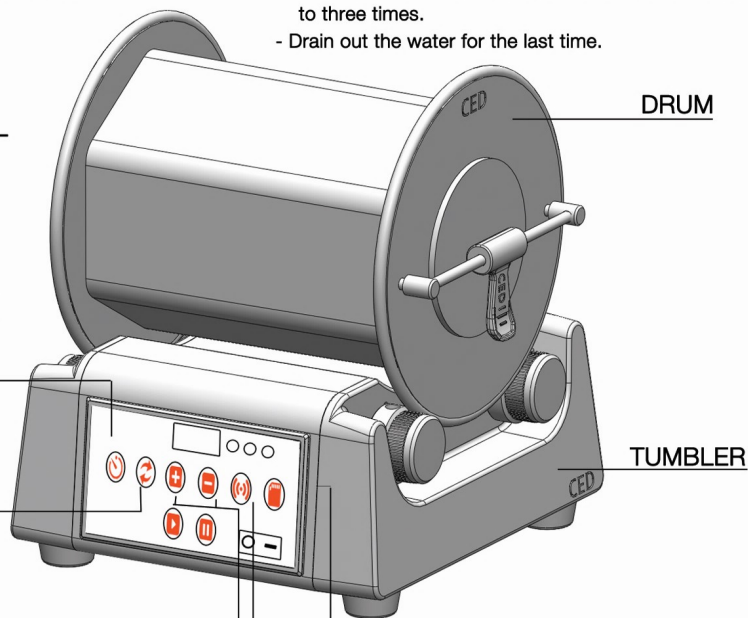
SOLID CAP



FILTER CAP



STAINLESS STEEL  
PIN MEDIA





### TIMER button



Press to set how long the machine shall run  
 Press once to increase time by 15 minutes  
 Default : 30 minutes  
 Minimum : 15 minutes  
 Maximum : 180 minutes, press once more to cycle back to 15 minutes


### DIRECTION button

Press to set the time interval for the rotation of direction  
 Press once to increase interval by 1 minute  
 Default : 1 minute  
 Minimum : 0 minute (rotate forward only)  
 Maximum : 20 minutes, press once more to cycle back to 0 minute


### OPERATION

-  **START button**  
Press to begin new cleaning cycle / resume current cleaning cycle
-  **PAUSE button**  
Press to pause current cleaning cycle

-   **SPEED buttons**  
Press to increase or decrease tumbler speed  
 Press once to increase or decrease speed by 5 rpm (Drum)  
 Minimum : 5 rpm (Drum rotation speed)  
 Maximum : 100 rpm (Drum rotation speed)

-  **MEMORY button**  
Press to save current "TIMER" + "DIRECTION" + "SPEED" settings into machine memory  
These settings will be the default of the tumbler the next time it is turned on.

- POWER**  
 OFF  ON

-  **ALARM button**  
Press to toggle on / off of the buzzer when the cleaning cycle completes

### ATTENTION

- Do not use the tumbler for longer than 9 hours consecutively. After finishing uninterrupted work for 9 hours, turn off the machine, unplug it and let it cool down for at least an hour.
- The rubber seal that lines the solid cap forms a waterproof barrier to protect the machine. Check for leakage every time before operating.
- If leakage is found, turn both knobs clockwise with the help of the metal locking bar. This shall tighten the solid cap when locking in place.
- Rinse both the solid cap and filter cap with fresh water after every use. Not doing so can eventually cause dirt built up in the seal.
- Do not touch any of the moving parts while operating the machine.
- Keep away from children.
- Do not allow children to use the tumbler.
- Do not leave the tumbler unattended while in use.
- Do not use the tumbler if the electric cord is damaged.
- Unplug the machine before cleaning it.
- Never pull the cord to disconnect from outlet, instead grasp the plug and pull to disconnect.
- The tumbler should only be used on a flat surface.
- Use the tumbler for consumer purposes. It is not designed for commercial use.