

*Eastwood*

DO THE JOB RIGHT.

Part #13539

# 5-LB CAPACITY VIBRATORY TUMBLER

## INSTRUCTIONS



**THE EASTWOOD 5 LB. CAPACITY VIBRATORY TUMBLER** is a powerful, high-capacity industrial type unit designed to efficiently de-burr, remove rust, clean and provide a highly-polished shine on metal parts and hardware. Wet or dry capability. With care, it will provide many years of trouble free service.

## INCLUDES

- Tumbler
- 2 Bowls
- 2 lbs. Green Rust-Cutting Media
- 2.5 lbs, Dry-Shine Media

## WARNINGS

- **DO NOT** allow water or liquid tumbling solution to enter motor area or electrical shock could occur.
- **DO NOT** use flammable solvents in the Tumbler. Fire and or explosion can result.
- **DO NOT** use degreasing solvents in the Tumbler as they may damage the bowl.
- Always unplug unit when filling or emptying bowl to avoid shock or unexpected start-up.
- **DO NOT** cover the unit with anything (such as a blanket or a box) to dampen noise as this can cause overheating and create a fire hazard.
- Never run unit with lid off. Vibratory action, cleaning and polishing emit hazardous dust. Always tighten lid down securely before starting.

## SPECIFICATIONS

- 120V AC / 60 Hz, 0.4 AMP
- 5 lb capacity, wet or dry

## SET UP

- Place Tumbler on a clean, dust and grit free surface. The Tumbler rubber feet are designed to prevent the Tumbler from “walking” during normal operation. We recommend that the machine be placed on a solid floor, away from any combustible materials. If machine is to be operated on a bench, it should be blocked in to prevent any accidents.
- Keep power cord away from and out from under Tumbler. The unit is equipped with a 5-1/2' long, grounded, 18 ga. cord. Plug into a properly grounded outlet. If an extension cord is required, use 18 ga. or heavier. Do not exceed 25'.
- **DO NOT OVERLOAD.** This Tumbler is designed to accommodate a 5 lb. total load, wet or dry. **ALWAYS FILL THE TUMBLER BY WEIGHT**, not by volume as it is very easy to overload the unit especially when using a wet solution. If in doubt, weigh the contents including parts, tumbling media and liquid solution. **NOTE:** 1 pint of water = 1-1/4 lbs. Overloading will greatly reduce the effectiveness of the machine making the process take longer. Overloading will also cause permanent damage to the Tumbler and the motor.
- The Eastwood 5 lb. Vibratory Tumbler will accept larger pieces up to 7” long and 2” wide however best results are achieved with numerous smaller pieces no larger than 3”. Be sure that no sharp edges or corners exist which can damage the interior wall of the bowl.
- It is not necessary to fully cover the parts being tumbled with media as the vibratory action will rotate and tumble them thoroughly during the process. Begin by adding a small amount of media to cover the bottom; add the parts to be tumbled then add remaining amount of pre-weighed media.
- All Tumbler Media available at The Eastwood Company are tested and approved to be compatible with this Tumbler. The use of other non approved media can damage the unit and void the warranty.

## OPERATION

- Inspect condition of parts to be cleaned. Parts should be free of paint before placing in the tumbler. Paint can be removed by soaking parts in a stripping agent prior to tumbling. Eastwood Powdercoat and Paint Dissolver (#12849) Qt., (#12850) Gal. works well.
- **DO NOT** under any circumstances put paint removers or solvents in the Tumbler bowl.
- Parts can be degreased by soaking in a solution of Metal Wash (#10120) (See package for directions). Or for faster degreasing, add about 1-2 teaspoons of Metal Wash concentrate (#10120) to any wet media then add enough water to wet the parts. Rinse cleaned parts in water and allow to dry.
- For best results sort parts to be tumbled by approximate weight and condition. Tumbling similar weight/condition parts together will yield most efficient results. Caution: Be aware of total weight of parts, media and water. Do not exceed 5 lbs.! Note: 1 pint of water = 1-1/4 lbs.

## REMOVING RUST

- Add Green Rust Cutting Media and parts to be cleaned. The ideal ratio for best tumbler action is 70% media to 30% parts.
- If adding water, remove the threaded plug on the lower section of the bowl and replace it with the drain fitting and clear hose with clip-valve. Add enough water to wet the parts and media, but not so much that standing water is visible. If degreasing is necessary, add a small amount (about 1 or 2 teaspoons of Metal Wash (#10120) to the bowl. Excessive water will dampen the vibratory action while too little water will impede proper action. Also, be careful not to exceed the 5 lb. weight limit. **NOTE:** 1 Pint of water = 1-1/4 lbs.
- Place lid over central mounting stud making sure the lid to bowl seal is intact. Place the rubber washer then the metal washer over the threaded stud. Thread the hand-knob lid retainer onto the stud until it meets resistance then hand tighten securely.
- Plug Vibratory Tumbler into properly grounded 120V AC 60 Hz outlet. Set on/off switch on the base to the on position.
- Typical processing times range from 3 to 7 hours. It is recommended to check periodically to see if the desired finish has been achieved. Actual time to achieve this appearance may vary greatly from 1 hour to requiring several additional hours depending on condition of media and degree of rust on parts to be cleaned.
- For many parts no further surface conditioning is needed. If the desired results are achieved, make sure Tumbler is unplugged.
- Remove lid.
- If media was used dry, a magnet may be used to "fish out" any steel or iron parts. For aluminum, brass or other non-ferrous parts, (while using rubber gloves for protection) the media can be manually sifted for hidden parts.
- If water was used, gently open the clip/valve on the drain hose and drain into a suitable container.
- Pour media and parts from the bowl onto newspaper or a towel, remove parts and dry with a heat lamp or hair dryer to avoid flash rust.
- Allow wet media to air dry for future re-use.

## PRODUCING A HIGH SHINE

- To add a highly reflective shine to the previously tumbled parts, proceed next to the DryShine® Media (#43204B). There is no need to add any water or polishes as this media is pre-treated with a polish.
- DryShine® Media (#43204B) should be tumbled with the parts for at least 6 hours. Tumbling for longer periods will yield a higher shine. Remember to use a ratio of 70% Media to 30% Parts. This dry media will not remove an appreciable amount of material; however it will remove dirt, and stain residues. Typical running time for this media is 6 to 24 hours.
- Protect the shine with Eastwood Diamond Clear for Bare Metal (#10200Z Aerosol 11 oz.) or the Eastwood Tin-Zinc Electroplating System (#10049Z). For the longest lasting finish protection use the Eastwood HotCoat™ Powder Coating System (#10198) or Eastwood Extreme Diamond Clear (#29894Z).

## TROUBLESHOOTING

- **Does not run when switch is turned on:**

- Check 120 VAC input plug connection.

- **Parts too dull:**

- Not in tumbler long enough: Allow more time.
- Skipped steps: Follow all steps for quickest results.
- Tumbler overloaded/overfilled: Check total weight of parts, media and liquid if used.
- Too many parts: Ideal ratio is 30% parts, 70% media.

- **Excessive wear inside of bowl:**

- Using wrong media: Use only media approved for use in Eastwood Tumblers.
- Parts too large for tumbler: Works best on parts smaller than 3".
- Tumbler overloaded/overfilled: Check total weight of parts, media and liquid if used.
- Too many parts: Ideal ratio is 30% parts, 70% media.

- **Heavy deposits in recesses of parts:**

- Too much or too little water when using Green Rust Cutting Media: Use just enough water to wet media.
- Parts not properly degreased before using Green Rust Cutting media: Degrease or add 1 teaspoon of Metal Wash to bowl.
- Not enough water added to Green Rust Cutting Media.

# MAINTENANCE

The following maintenance should be performed every 100 hours of use:

1. Check tightness of all hardware.
2. Inspect interior of bowl to ascertain any premature wear.

To optimize media use:

1. Allow wet media to thoroughly dry before returning to unused media container
2. Continue to use media until it no longer cuts in a reasonable amount of time.
3. Continue to use all medias until they become a useless dust as the abrasive/polishing compounds are present throughout each media particle.

# OPTIONAL ITEMS

- #13192 Tumbler Media Sifter to filter media.
- #43032 40 Piece Master Rethreading Set to chase all hardware and restore and clean threads,.
- #10200Z Diamond Clear, Aerosol 11 oz. to protect highly polished parts from tarnishing.
- #100049Z Tin Zinc Plating System to produce a protective cad-like coating.
- #10238Z Metal Blackening System with Diamond Clear to produce a non-dimensional black oxide coating.
- #10198 HotCoat Powder Coating System Produces the most durable chip resistant finish available.
- #29894Z Eastwood Extreme Diamond Clear provides an invisible, highly durable, non-yellowing, chip resistant, permanent coating.

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**If you have any questions about the use of this product, please contact**

The Eastwood Technical Assistance Service Department: 800.544.5118 >> email: [techhelp@eastwood.com](mailto:techhelp@eastwood.com)

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