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VEVOR KT-185

VEVOR KT-185 Magnetic Jewelry Tumbler Polisher User Manual

Model: KT-185

1. Introduction

The VEVOR KT-185 Magnetic Jewelry Tumbler Polisher is designed for efficient and precise polishing of various items. This machine utilizes a magnetic field to agitate small magnetic pins, which in turn polish the surfaces of jewelry, metals, and other small parts. It is suitable for deburring, chamfering, polishing, and washing tasks, restoring shine to corroded or worn items.

This polisher features bidirectional rotation and adjustable speed up to 2000 RPM, along with a customizable timer function for automated operation. Its robust construction ensures durability and safe use.



Image 1.1: The VEVOR KT-185 Magnetic Tumbler Polisher, highlighting its suitability for polishing jewels, stones, and coins.

Applications:

- Polishing of gold, silver, copper, aluminum, zinc, magnesium, iron, stainless steel.
- Processing of rigid plastics and other non-metallic precision parts.
- Ideal for rings, bracelets, necklaces, coins, and small screws.



Image 1.2: Examples of wide applications for the magnetic tumbler, including various jewelry items, coins, and small metal parts.

2. Safety Instructions

To ensure safe operation and prevent damage to the machine or injury, please read and follow all safety instructions carefully.

- **Electrical Safety:** Ensure the power supply matches the machine's specifications (220-230V AC 50Hz). Do not operate with wet hands or in damp environments. Always unplug the machine before cleaning or maintenance.
- **Ventilation:** Ensure adequate ventilation around the machine to prevent overheating. Do not block the heat dissipation ports.
- **Stable Placement:** Place the machine on a stable, level surface to prevent vibration and movement during operation.
- **Barrel Security:** Always ensure the polishing barrel is securely placed and the lid is properly closed before starting the machine.
- **Magnetic Pins:** Handle magnetic pins with care. Keep them away from sensitive electronic devices, credit cards,

and pacemakers.

- **Supervision:** While the machine has a timer, do not leave it unattended for extended periods, especially during initial use.
- **Children and Pets:** Keep the machine out of reach of children and pets.
- **Emergency Stop:** Familiarize yourself with the power switch for quick shutdown in case of an emergency.

3. Product Overview

Components Included:

- 1 x Magnetic Tumbler Jewelry Polisher
- 1 x Magnetic Pin (media)
- 2 x Fuses (0.5 A)
- 1 x User Manual

Key Features:

- **Powerful Rotation:** Features a strong and stable magnetic field, achieving speeds up to 2000 RPM for efficient polishing. Supports both unidirectional and bidirectional rotation modes.
- **Durable Polishing Barrel:** Constructed from high-quality, multi-faceted polycarbonate material, ensuring no leakage, high hardness, and resistance to corrosion.
- **Intuitive Control Panel:** Clear and functional buttons allow for easy adjustment of polishing time (0-60 minutes) and rotation mode.
- **Efficient Heat Dissipation:** Equipped with multiple cooling vents and a powerful fan to prevent overheating and ensure stable operation.
- **Portable Design:** Integrated handles on both sides facilitate easy transportation of the unit.
- **Non-Slip Base:** Designed with a non-slip base to minimize vibration during operation.



Image 3.1: Illustration of the high-speed rotation mechanism, capable of up to 2000 RPM for efficient polishing.



Image 3.2: Details of the machine's design, including the non-slip base, heat dissipation ports, and portable handles.

4. Setup

4.1 Unpacking:

Carefully remove all components from the packaging. Inspect the machine for any signs of damage during transit. Retain packaging for future storage or transport.

4.2 Placement:

Place the polisher on a sturdy, level, and dry workbench. Ensure there is sufficient space around the machine for ventilation and operation. Avoid placing it near heat sources or in direct sunlight.

4.3 Initial Preparation:

1. Connect the power cord to the machine and then to a grounded electrical outlet matching the specified voltage.

2. Ensure the power switch on the control panel is in the 'OFF' position before plugging in.
3. Place the polishing barrel securely onto the machine's base.



Image 4.1: The durable polycarbonate polishing barrel, showing its capacity and the magnetic pins used for polishing.

5. Operating Instructions

5.1 Control Panel Overview:



Image 5.1: The intuitive control panel featuring the timer knob and rotation direction switch.

- **Power Switch:** Toggles the machine ON/OFF.
- **Timer Knob (0-60 minutes):** Sets the desired polishing duration. The machine will automatically stop when the timer expires.
- **Rotation Mode Switch:** Selects between 'Forward' (unidirectional), 'Stop', and 'Reverse' (bidirectional) rotation. Bidirectional rotation is recommended for comprehensive polishing.

5.2 Polishing Process:

1. **Prepare the Barrel:** Open the polishing barrel. Add the magnetic pins (included) to the barrel.
2. **Add Water and Compound:** Fill the barrel with water, ensuring the water level is appropriate for the items being polished. Add a suitable polishing compound (not included) according to the compound manufacturer's instructions.
3. **Load Items:** Carefully place the items to be polished into the barrel. Do not overload the barrel; ensure items can move freely. The maximum capacity is 800g.
4. **Secure the Lid:** Close the barrel lid tightly to prevent leakage during operation.
5. **Set Timer:** Turn the timer knob to the desired polishing duration (e.g., 15-30 minutes for initial polishing).

6. **Select Rotation Mode:** Choose 'Forward' or 'Reverse' (for bidirectional) using the rotation mode switch. For best results, bidirectional rotation is often preferred.
7. **Start Polishing:** Turn the main power switch to 'ON'. The machine will begin operating.
8. **Monitor Progress:** Periodically check the polishing progress. If necessary, adjust the time or rotation mode.
9. **Finish:** Once the timer expires or polishing is complete, turn the main power switch to 'OFF'.
10. **Retrieve Items:** Carefully open the barrel and retrieve the polished items. Rinse them thoroughly to remove any remaining pins or compound. Separate the magnetic pins using a magnetic separator (not included) if needed.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your VEVOR KT-185 Magnetic Jewelry Tumbler Polisher.

- **Cleaning the Barrel:** After each use, thoroughly clean the polishing barrel with water to remove any residue from polishing compound or debris. Ensure it is completely dry before storage.
- **Cleaning the Machine:** Wipe the exterior of the machine with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure no liquid enters the internal components.
- **Magnetic Pins:** Clean the magnetic pins regularly. Store them dry to prevent corrosion. Replace worn or damaged pins as needed.
- **Ventilation Ports:** Periodically check and clean the heat dissipation ports to ensure they are free from dust and debris, maintaining proper airflow.
- **Storage:** When not in use, store the machine in a dry, dust-free environment, away from extreme temperatures.
- **Fuse Replacement:** If the machine fails to power on, check the fuses. Replace with the provided 0.5 A fuses if necessary. Always unplug the machine before attempting fuse replacement.

7. Troubleshooting

This section addresses common issues you might encounter with your magnetic tumbler polisher.

Problem	Possible Cause	Solution
Machine does not power on.	1. Power cord not securely plugged in. 2. Blown fuse. 3. No power from outlet.	1. Check power cord connection. 2. Replace fuse (0.5 A). Ensure machine is unplugged first. 3. Test outlet with another device.
Barrel does not rotate or rotates weakly.	1. Overloaded barrel. 2. Incorrect rotation mode selected. 3. Magnetic pins are stuck.	1. Reduce the load in the barrel. 2. Ensure 'Forward' or 'Reverse' is selected. 3. Clean the barrel and pins. Ensure free movement.
Poor polishing results.	1. Insufficient polishing time. 2. Incorrect amount of water or compound. 3. Worn magnetic pins. 4. Items not suitable for magnetic tumbling.	1. Increase polishing duration. 2. Adjust water and compound ratios according to instructions. 3. Replace magnetic pins. 4. Verify material compatibility.

Problem	Possible Cause	Solution
Machine overheats.	1. Blocked ventilation ports. 2. Prolonged continuous operation. 3. Overload.	1. Clean ventilation ports. 2. Allow machine to cool down between long polishing cycles. 3. Reduce load.

8. Specifications

Detailed technical specifications for the VEVOR KT-185 Magnetic Jewelry Tumbler Polisher.

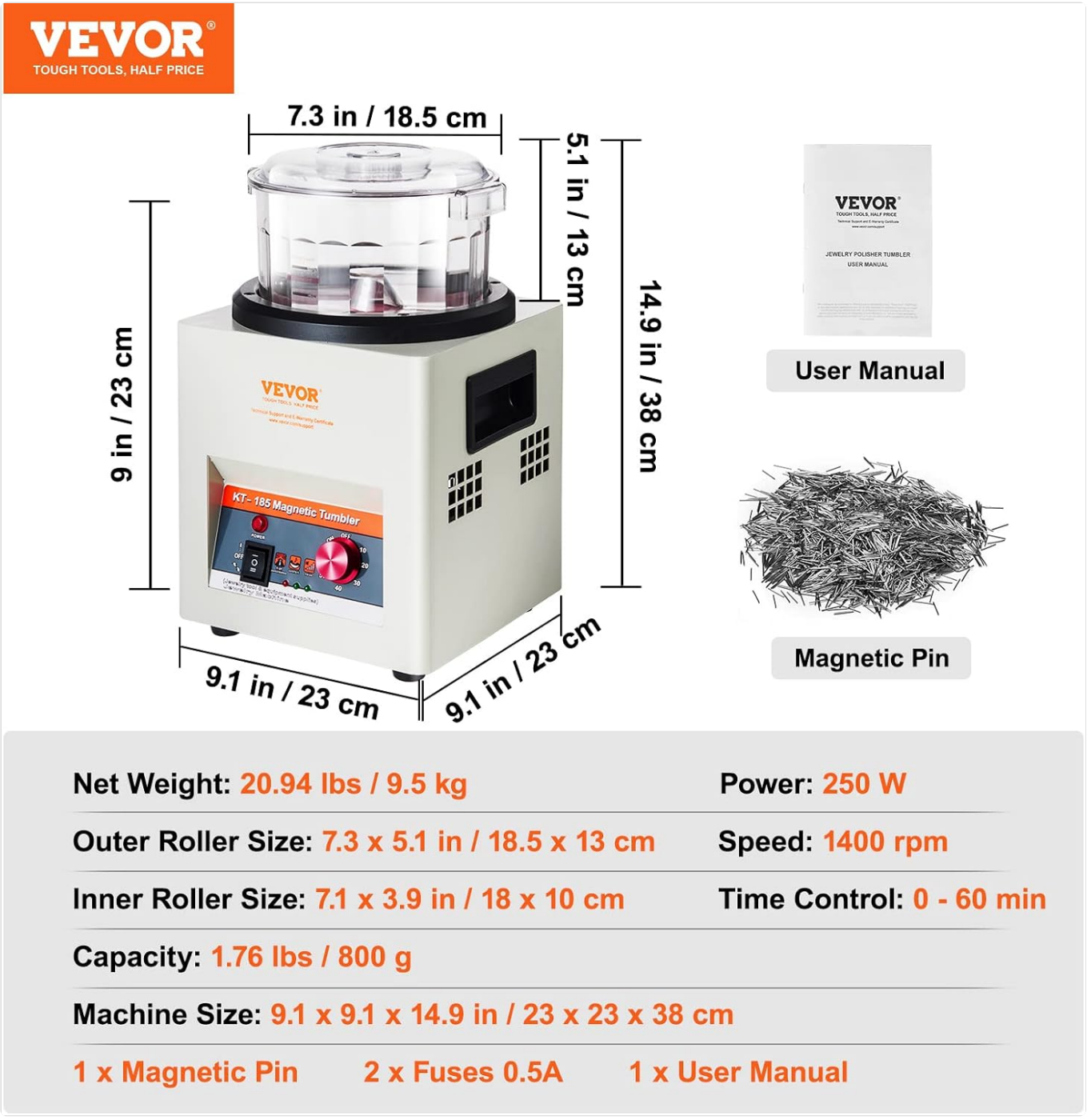

Image 8.1: Dimensional diagram and key specifications of the VEVOR KT-185 Magnetic Tumbler Polisher.

Specification	Value

Specification	Value
Model Number	KT-185
Voltage	220-230 V AC 50 Hz
Power	250 W
Speed	1400-2000 RPM
Time Control	0-60 minutes
Outer Barrel Size	7.3 x 5.1 in (18.5 x 13 cm)
Inner Barrel Size	7.1 x 3.9 in (18 x 10 cm)
Capacity	1.76 lbs (800 g)
Machine Dimensions (L x W x H)	9.1 x 9.1 x 14.9 in (23 x 23 x 38 cm)
Net Weight	20.94 lbs (9.5 kg)

9. Warranty and Support

VEVOR is committed to providing quality products and customer support. For technical assistance, warranty information, or to register your product for an e-warranty certificate, please visit the official VEVOR support website.

Official Support Website: www.vevor.com/support

Please have your model number (KT-185) and purchase information ready when contacting support.

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