JT-14 DENTAL VIBRATOR

English User Manual | Jintai JT-14 Round Shaker / Variable-Intensity Model Vibrator

1. Intended Use

The JT-14 is a benchtop dental laboratory vibrator used while pouring dental stone or gypsum into impressions, molds, and model-forming containers. Controlled vibration helps the material flow into details and allows trapped air to rise. It may also be used in compatible dental-laboratory duplication or investing workflows. It is not a medical device intended for direct use on patients.

2. Identifying the Equipment

- **Vibrating top/platform:** supports the impression tray, mold, or suitable material container.
- **Vibration controls:** depending on the unit supplied, controls may include a LOW / OFF / HIGH selector and a separate intensity-adjustment knob. Follow the markings on your actual machine.
- **Body and power cord:** keep the housing and all electrical connections dry.

3. Specifications

Item	Reported specification / verification
Model	JT-14
Rated power	100 W (Jintai retailer listing)
Supply variants	110 V / 60 Hz or 220 V / 50 Hz (different versions; NOT universal voltage)
Approximate overall size	14 x 15 x 11 cm
Maximum load	Up to 2 kg cited by a separate JT-14 supplier; verify for your exact unit
Operating duration	No manufacturer-approved continuous duty cycle verified

4. Safety Precautions

- **Voltage:** confirm that the rating plate matches the local mains supply before plugging in. Do not connect a 110 V unit directly to 220 V, or vice versa.
- Operate indoors on a level, rigid, dry, non-slip bench with space around the machine.
- Use a properly grounded outlet if the equipment is supplied with a grounding-type plug; do not defeat its protective connection.
- Keep water, wet plaster, and other liquids away from switches, openings, the cord, and plug. Never immerse or spray the device.
- Do not use a damaged cord, loose plug, cracked housing, or abnormally hot/noisy unit. Stop, unplug, and arrange qualified inspection.
- Keep hands, tools, clothing, and unsecured containers clear of moving parts. Do not leave the machine unattended while vibrating.
- Do not exceed the verified load rating. Heavy, tall, or unbalanced containers can move or tip during vibration.
- Avoid excessive vibration, which may cause splashing, segregation, or a displaced impression/mold.

5. Before First Use

Step 1. Unpack the vibrator and check the housing, top platform, controls, cable, and plug for shipping damage.

Step 2. Place it on a stable, dry, flat surface; remove loose objects from the immediate work area.

Step 3. Check the voltage/frequency printed on the equipment label against your electrical supply.

Step 4. Set the selector to the center OFF / O position if fitted. Turn a separate intensity knob to its lowest or OFF setting if applicable.

Step 5. Verify that the platform is clean and secure. Prepare the impression/mold and mixed gypsum following the material manufacturer's mixing ratio and working time.

6. Operating Instructions

1. Start safely. Connect to the correct power supply. Place the impression tray or a suitable container securely on the vibrating platform, or hold the tray securely above/against the platform if that is your lab's established technique. Keep it from sliding.

2. Select vibration. Where marked LOW / OFF / HIGH, select LOW first and increase to HIGH only if required. If an adjustment knob is fitted, turn clockwise to increase and counterclockwise to decrease intensity as described for another JT-14 listing; confirm the markings and response of your unit.

3. Pour material gradually. Introduce a small quantity of properly mixed gypsum at one edge or the deepest detail of the impression. Let gentle vibration guide the mix across the surface, then add more material gradually.

4. Control bubbles and spillage. Use only enough vibration for material to flow and visible bubbles to rise. If the tray moves, material splashes, or separation occurs, reduce intensity or stop.

5. Stop the machine. Return the selector to OFF / O and any intensity knob to OFF / minimum. Wait for all vibration to stop before removing the mold or container.

6. Finish the procedure. Allow the dental material to set according to its own instructions. Unplug the vibrator after use and before cleaning.

Important: There is no verified fixed vibration time for every material. Use short, controlled intervals and follow the gypsum/investment manufacturer's process instructions. Do not interpret the five-minute performance note found in a third-party JT-14 leaflet as a required warm-up procedure.

7. Cleaning and Routine Care

- Turn the unit OFF, unplug it, and let it stop before every cleaning operation.
- Promptly remove plaster residue from the platform using a soft, slightly damp cloth or a non-damaging plastic scraper. Prevent liquid entering the housing.
- Wipe the outer housing dry. Do not use running water, immersion, abrasive tools, or aggressive solvents.
- Periodically inspect the platform attachment, feet, cord, and plug for looseness or wear. Do not disassemble electrical parts yourself.
- Store in a clean, dry environment when not in use.

8. Basic Troubleshooting

Problem	Checks / corrective actions
No vibration	Verify plug and power, rating plate and outlet; confirm control is not set to OFF. If still inoperative, disconnect and seek service.
Weak or uneven vibration	Check intensity setting, platform buildup, mounting, stability and excessive load; do not open the case.
Excessive movement or spilling	Reduce intensity; center and secure the mold; reduce load.
Unusual noise, odor or overheating	Switch OFF immediately, unplug and discontinue use until inspected.

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