

## Superdental DB-338

# Superdental DB-338 Dental Digital Amalgamator Mixer

Instruction Manual

## INTRODUCTION

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The Superdental DB-338 Dental Digital Amalgamator Mixer is a microprocessor-controlled device designed for precise, consistent mixing of dental capsule materials, particularly mercury-based fillings. Its ergonomic design ensures ease of use, stability, quiet operation, and simple cleaning and maintenance.

## SAFETY INFORMATION

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Please read all instructions carefully before operating the device. Keep this manual for future reference. Observe all standard safety precautions when handling electrical equipment and dental materials.

- Ensure the device is connected to the correct voltage supply (110V/60Hz or 220V/50Hz as applicable).
- Do not operate the device with wet hands or in a wet environment.
- Always unplug the device before cleaning or maintenance.
- Keep the device away from children and unauthorized personnel.
- Do not attempt to open or repair the device yourself. Refer to qualified service personnel.
- Ensure the mixing chamber lid is securely closed before starting operation.

## PRODUCT FEATURES

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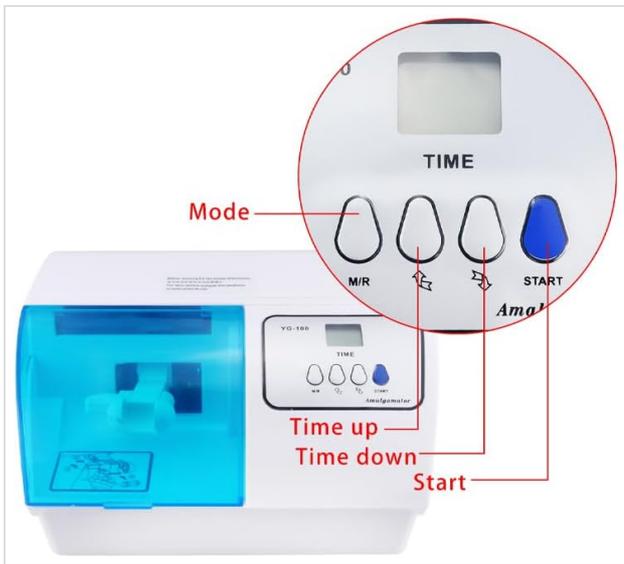
- Microprocessor-controlled for precise, consistent mixing.
- Adjustable oscillating range and mixing frequency.
- Programmable mixing time from 1 to 99 seconds.
- "8" model revolution for thorough mixing.
- Ergonomic design for ease of use.
- Stable, quiet, and easy to clean and maintain.

## COMPONENTS AND CONTROLS

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**Figure 1:** Front view of the Superdental DB-338 Amalgamator, showing the transparent blue mixing chamber on the left and the control panel on the right.



**Figure 2:** Detailed view of the control panel. It features a digital display for time, and four buttons: "Mode" (M/R), "Time Up", "Time Down", and "Start".



**Figure 3:** Rear view of the amalgamator, highlighting the

power switch, fuse holders, 110V-220V selector switch, and the power cord with an EU/US plug.



**Figure 4:** Close-up of the capsule loading mechanism inside the mixing chamber, showing the rocker, button, and collet for securing the capsule.

## SETUP

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1. **Unpacking:** Carefully remove the amalgamator from its packaging. Inspect for any signs of damage during transit.
2. **Placement:** Place the unit on a stable, flat, and dry surface, ensuring adequate ventilation around the device.
3. **Voltage Selection:** Locate the 110V-220V selector switch on the rear of the unit (refer to Figure 3). Ensure it is set to match your local power supply voltage. **Incorrect voltage selection can damage the unit.**
4. **Power Connection:** Connect the power cord to the amalgamator and then plug it into a grounded electrical outlet.
5. **Initial Check:** Before first use, ensure the two screws at the bottom of the unit (if present, as indicated by some labels) are removed.

## OPERATING INSTRUCTIONS

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1. **Power On:** Flip the power switch located on the rear of the unit to the "ON" position (refer to Figure 3). The digital display on the control panel will illuminate.
2. **Setting Mixing Time:**
  - Use the "Time Up" and "Time Down" buttons (refer to Figure 2) to adjust the desired mixing time. The time can be set from 1 to 99 seconds.
  - Pressing the "Mode" (M/R) button may cycle through different pre-set mixing modes or memory functions, if available. Consult specific material instructions for recommended mixing times.
3. **Loading the Capsule:**
  - Open the transparent blue lid of the mixing chamber.
  - As shown in Figure 4, hold the rocker with your forefinger, then press the button and push on the right side simultaneously with your thumb to open the collet.
  - Insert the dental capsule into the cavity of the collet.
  - Release your hand; the collet will automatically secure the capsule.
  - Verify that the capsule is correctly seated in the collet. Adjust if necessary.

4. **Starting the Mix:** Close the transparent blue lid securely. Press the "Start" button (refer to Figure 2). The amalgamator will begin mixing, and the timer will count down.
5. **Completion:** Once the set time has elapsed, the amalgamator will automatically stop. Open the lid and carefully remove the mixed capsule.
6. **Power Off:** After use, flip the power switch to the "OFF" position and unplug the device from the power outlet.

## MAINTENANCE

- **Cleaning:**
  - Always unplug the device before cleaning.
  - Wipe the exterior surfaces with a soft, damp cloth. Do not use abrasive cleaners or solvents.
  - Clean the mixing chamber and collet regularly to prevent accumulation of material residue. Use a soft brush or cloth.
  - Ensure no liquids enter the internal components of the device.
- **Fuse Replacement:** If the unit does not power on, check the fuses located at the rear of the unit (refer to Figure 3). Replace blown fuses with new ones of the same type and rating (2A).
- **Storage:** Store the amalgamator in a clean, dry place away from direct sunlight and extreme temperatures.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not power on.	No power supply; Blown fuse; Power switch off.	Check power cord connection and outlet; Replace fuse (2A); Ensure power switch is ON.
Mixing does not start when "Start" button is pressed.	Lid not securely closed; Capsule not properly seated.	Ensure the transparent lid is fully closed and latched; Re-seat the capsule in the collet.
Unusual noise during operation.	Capsule not properly seated; Internal mechanical issue.	Check capsule seating; If noise persists, discontinue use and contact service.
Inconsistent mix.	Incorrect mixing time; Faulty capsule; Device malfunction.	Verify mixing time setting; Use fresh capsules; If problem persists, contact service.

## SPECIFICATIONS

Parameter	Value
Voltage	110V/60Hz or 220V/50Hz (selectable)
Absorbed Power	200W
Fuse	2A
Mixing Frequency	4500 rpm
Programmable Mixing Time	1-99 seconds
Dimensions (L x W x H)	33 cm x 37 cm x 20 cm (approx. 13 x 14.5 x 7.9 inches)
Net Weight	4.3 KG (approx. 9.48 lbs)

Parameter	Value
Gross Weight	4.5 KG (approx. 9.92 lbs)
Material	Plastic and metal
Power Source	Electric-powered
Manufacturer	Superdental
Date First Available	April 19, 2018

## WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the documentation provided with your purchase or contact Superdental customer service directly. Keep your purchase receipt as proof of purchase.

**Contact Information:** Please refer to the manufacturer's official website or your point of purchase for the most current contact details for Superdental customer support.