

JHBE-50V Ultra-Speed Extractor Equipment Operation Manual

1. Product Introduction

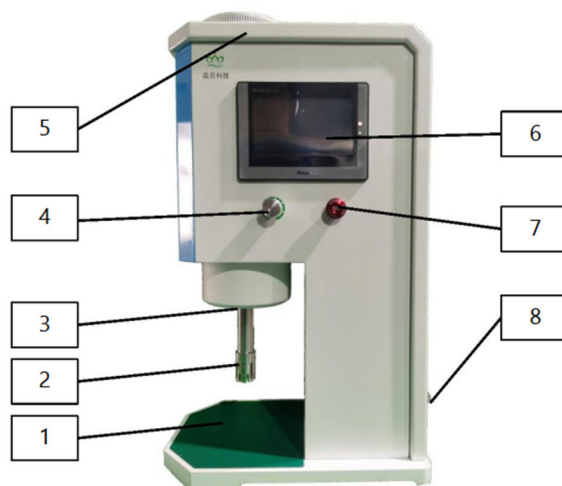
The JHBE-50V Ultra-Speed Extractor is a new-type instrument designed for rapid and room-temperature extraction of effective components from plants. Compared with conventional extraction equipment (such as reflux, decoction, ultrasonic, microwave, etc.), it features high extraction efficiency, high yield, no need for heating, no damage to thermosensitive components, simple operation, energy conservation, and environmental protection. It represents leading extraction technology and equipment in China in recent years.

The JHBE-50V Ultra-Speed Extractor is widely applicable to the extraction of grass from roots, stems, leaves, flowers, fruits and seeds. Almost all solvents except ether and chloroform, which are highly volatile, highly toxic and highly corrosive, can be used. In operation, it can be achieved by key operation which is very simple and convenient.

The maximum extraction amount of the JHBE-50V Ultra-Speed Extractor is 1000g (medicinal materials) per cycle, with 500g being generally recommended. The solvent ratio is determined by the customer. The extraction time is 1-5 minutes (varying by medicinal materials), and the recommended rotation speed of the extraction blade is (2500-4000) r/min, under which the yield is relatively high.

2. Product Structure

The functional keys of the JHBE-50V Ultra-Speed Extractor are shown in the figure:



1. Extraction bucket placement platform: for placing the extraction bucket.
2. Blade: for crushing materials.
3. Locking nut: for fixing the blade.
4. Speed regulation knob: for adjusting the main shaft speed.

5. Housing: for supporting and protecting the equipment.
6. Touch screen: for human-machine interaction.
7. Emergency stop button: pressing this button stops the equipment.
8. Power board: power socket.

3. Operation Steps

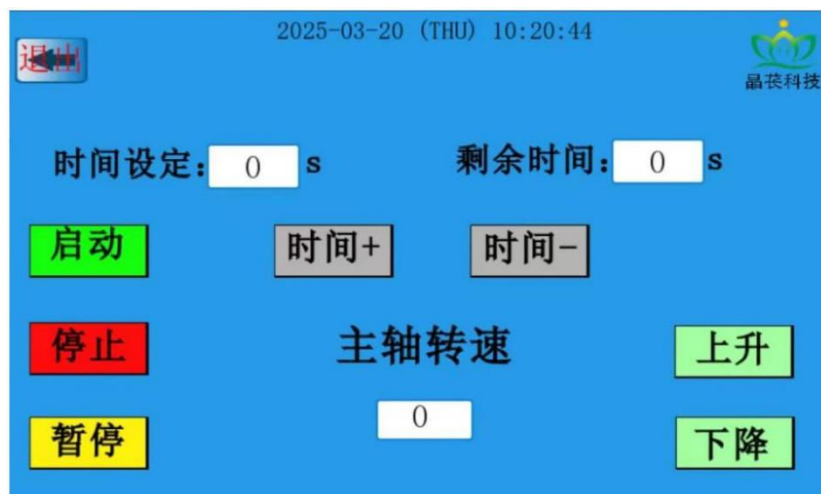
3.1 Power On

The product is equipped with a 2m-long power cord. Plug one end into the power socket, connect the other end to the equipment's power board, tighten the nut to prevent loosening, and press the boat-type switch button.



3.2 Boot and Interface Entry

After powering on, click the "Enter" button on the touch screen to enter the human-machine interaction interface, as shown below.



Button Functions:

- (1) Exit: click to return to the boot interface.
- (2) Time setting: click the white box area to bring up the numeric keypad and enter the required time.
- (3) Remaining time: displays the system countdown.
- (4) Start: click to start the equipment and enter a single extraction cycle.

- (5) Time +: click to increase the time by 1 second.
- (6) Time -: click to decrease the time by 1 second.
- (7) Stop: click to stop the equipment.
- (8) Pause: click to pause the equipment; click "Start" to resume.
- (9) Main shaft speed: displays the main shaft speed, i.e., the blade speed.
- (10) Up: click to raise the blade.
- (11) Down: click to lower the blade.

3.3 Parameter Setting

3.3.1 Set the extraction time before operation. The default working time is 2 minutes. To increase the working time, press the "Timer +" button on the control panel until the set value is reached; to decrease it, press "Timer -" until the set value is reached. Alternatively, click the time button area and directly enter the corresponding time in the pop-up pane.

3.3.2 Turn the speed regulation knob fully counterclockwise to zero.

Special Note: If the speed regulation knob is not at zero when starting, the system will automatically alarm and lock the program, with the touch screen displaying an alarm screen. To clear it, return the speed regulation knob to zero first, then restart the equipment.

3.4 Material Feeding

Place medicinal herb decoction pieces (no more than 1000 grams) into the extraction bucket, add an appropriate amount of solvent (the minimum amount should submerge the extraction blade), and then place it on the equipment's extraction platform.

Recommendation: To prevent splashing, the maximum solvent amount is not recommended to exceed 75% of the extraction bucket's volume.

3.5 Start

First, confirm again that the speed regulation knob is at zero.

Then set the time parameter, press the "Down" button to immerse the blade 1/2 into the liquid.

Press the "Start" button, and the system will start counting down. Finally, manually turn the speed regulation knob to the recommended speed (2500-4000) r/min. During operation, the blade can be raised or lowered to crush the materials more fully.

Special Notes:

- (1) The blade must operate immersed in the solvent; idling in the air will easily damage the blade or cause other safety accidents.
- (2) When adjusting the blade up or down during operation, the blade must remain immersed in the solvent and not exceed the maximum liquid level.

3.6 Extraction Completion

When the extraction countdown ends, the extraction blade will automatically stop working and rise to the set position, completing a single extraction process.

3.7 Equipment Cleaning

Add cleaning solvent (generally pure water or extraction solvent) to the extraction bucket, place it on the extraction platform, lower the blade into the cleaning agent, rotate the speed regulation knob to make the extraction blade rotate at high speed in the cleaning agent for 5 seconds (no more than 2000 r/s), raise the blade, and dry the blade with a clean cloth or absorbent paper.

4. Precautions

Refer to the "Precautions" on the equipment control panel.

Special Reminders:

- 4.1 The speed regulation knob must be set to zero.
- 4.2 The blade must work immersed in liquid and not idle in the air.
- 4.3 Regularly inspect the blade. If looseness, eccentricity, or metal collision sounds are found during operation, replace the Teflon ring in a timely manner.

5. After-Sales Service

Henan Changyi Biotechnology Co., Ltd., the manufacturer, provides a one-year free warranty (from the date of signing for the instrument). Consumables (Teflon rings) are warranted for 3 months. If the instrument is damaged due to improper use, the manufacturer will charge fees for component replacement or maintenance.

In case of any problems during use, please contact the manufacturer immediately; do not disassemble the instrument without authorization.

24-hour after-sales service hotline: 15837137855

Spare Parts List

- Equipment main body × 1
- Wrench × 1
- Teflon rings × 2
- Certificate of conformity × 1
- Disassembly sleeve × 1