



**ZB500S Automatic Solder Cream Mixer**  
User Manual



Thank you very much for your choice of our products and please read this manual carefully before using!

## ***I. Overview***

ZB500S Automatic Solder Cream Mixer makes solder cream move downward constantly through centrifugal force generated by revolution and cooperation with energy from rotation at 45 degree angle of axis of revolution. Solder cream located in the tank bottom makes upward movement from the surrounding, which forms a tornado-funnel shaped stirring action, and it can stir, soften and defoam the solder cream with appropriate viscosity. Solder cream has good wettability, even diffusivity, excellent printing effect after mixing, which achieves the best welding performance when reflowing soldering. Its characteristics are as follows:

There is special control circuit, adjustable mixing time and easy operation.

Solder cream is placed by 45 degrees and rotates along axis direction and solder cream won't stick to the pot cover.

Smooth operation, low noise, temperature return naturally and bubble remove in the process of mixing.

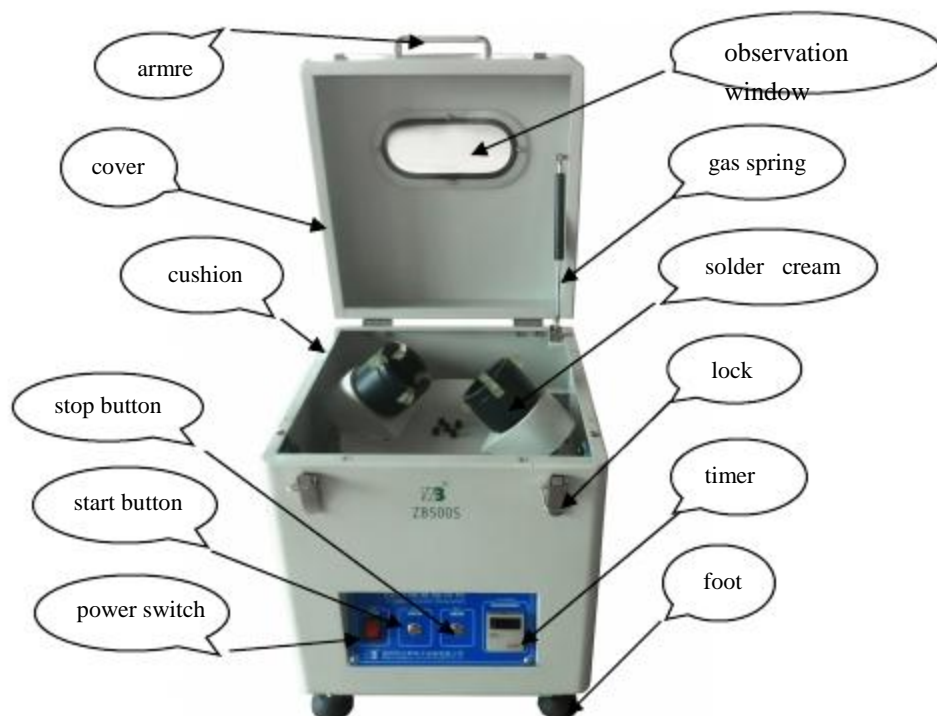
There is no need to open cover for solder cream pot and it is convenient and safe for pick-and-place.

There is safety device to ensure the personal safety.

## II. Technical parameters

Type	ZB500S
Operating speed	Motor speed: 1350RPM
	One revolution: 400RPM; Two rotations: 300RPM
Operational capability	0-1000 g * 2 tanks
Acceptance of solder cream pot	Tank diameter $\Phi 60$ - $\Phi 67$ standard configuration (suitable for general 500 g solder cream bottle) Other specifications, please contact us for customization.
Time setting	0.01s~99H99s, minute and second set
Display mode	LED digital display
Rated power	Constant speed 60W
Working power supply	AC 220V $\pm 10\%$ 50Hz
Boundary dimension	400×400×500mm
Machine weight	45kg

## III. Composition



#### ***IV. Installation and debugging***

1. Remove the packaging, read this manual carefully. Both hands hold the base to lift the host in right direction, put host well onto solid and smooth ground.
2. Open the lock, open machine cover, run revolution-running device clockwise by hand, fixture of solder cream pot should make corresponding rotation movement at the same time.
3. Confirm the power and turn power switch to OFF position and connect to the power supply.
4. Connect ground electrode of the host.

#### ***V. Operating steps***

***Step1:*** Loose the lock button and open the machine cover.



***Step2:*** Take solder cream and put lining (remarks: don't need to add lining if solder cream diameter is more than  $\phi 64$ .), take attached balance weights 500g.



**Step3:** Put solder cream and balance weights into solder cream pot (remarks: if we mix 2 bottles of solder cream at the same time, we can cancel balance weights).



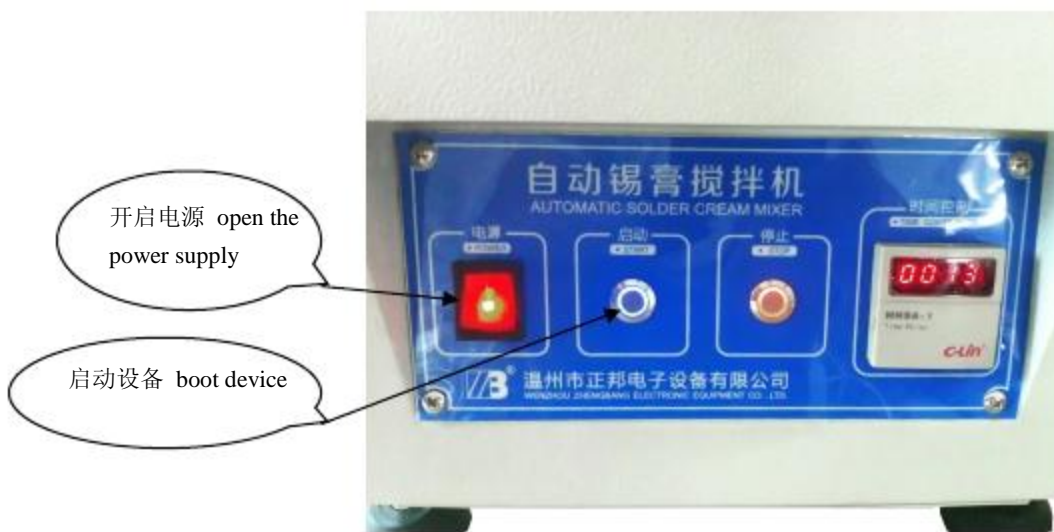
**Step4:** Cover machine cover and lock machine lock.



**Step5:** Set reference of mixing time at 15 minutes (remarks: H-hours, M-minutes, S-seconds in time relay), set to 15M00.



**Step6:** Turn on the power supply, open the power supply switch, boot device to begin mixing.



**Step7:** When mixing time is over and mixing head stops rotating, press stop button, turn the power off and remove the solder cream.

Note: If we need to mix two bottles of solder cream at the same time, we should make sure that the weight is roughly equal and difference is not more than 50 grams. If we just need to mix one bottle of solder cream, we choose balance weight 500g according to weight of solder cream or use an empty solder cream pot to load unused solder cream (or other items) which has equal weight as a balance weight.

## VI. Maintenance

Solder cream mixer is precise machinery and equipment and it will prolong the service life via frequent maintenance.

1. Machine uses fully-enclosed bearing and please keep machine clean.
2. Rotation devise belt is not durable item and please replace in the case of breakage.

## VII. Matters needing attention

1. Mixing operation is strictly prohibited when opening cover or unlocking.
2. There are some vibrations when machine runs so machine should be placed in a smooth and solid place. If there is intense and abnormal vibration noise when machine runs, please shut the power immediately and after all parts of machine stop running, please open cover for check and troubleshooting.

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3. Before starting of machine, please make sure that there is no tool, gloves or other items in the machine, solder cream pot is placed correctly and weight difference on both sides of operation unit is not more than 50 grams, otherwise it will cause violent vibration of machine and lead machine damage in operation.

4. After ending of operation or pressing STOP button in the process of operation to make machine stop running, please make sure that mixing head is stopped fully via observation window and then open lock to open cover for further operation.

### ***VIII. Attachment list***

1. Adjustment belt	2 PCS
2. Rotation belt	2PCS
3. Balance weights 500g	1PCS
4. Instruction book	1PCS
5. Certificate of quality	1PCS
6. Lining	2PCS

### ***IX. After-sales service***

This machine warranty period is 12 months from the date of purchase; we will repair for free if it doesn't belong to man-made fault during the warranty period. In the case of man-made fault or beyond warranty period, we will take maintenance fee according to the circumstances and guarantee lifelong maintenance.