

WQS VIBRATING SCREEN

OPERATING INSTRUCTION

Please read through these operating instruction before using

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I. Application

Vibrating Screen WQS is an up-to date laboratory automatic screen designed and developed by our factory, applied to particle analysis in the fields of pharmacy, metallurgy, foods, cosmetics and grain, and characterized by convenient operation, no rotary component, and electronic controlled amplitude and frequency. Its performance index is equal to that of the vibrator with sieve manufactured by German FRITSCH. In comparison with the traditional manual screen, it can greatly reduce labor intensity of operators and raise working efficiency. It is an essential laboratory screen for particle analysis.

II. Special environmental consideration

- a) The normal operating environment for vibrating screen should be kept within 5-35°C.
- b) The ground connection of vibrating screen should be reliable.
- c) Keep away from the interference sources of strong electromagnetic field.

screening time can be adjusted from 3 to 6 min by a timer.

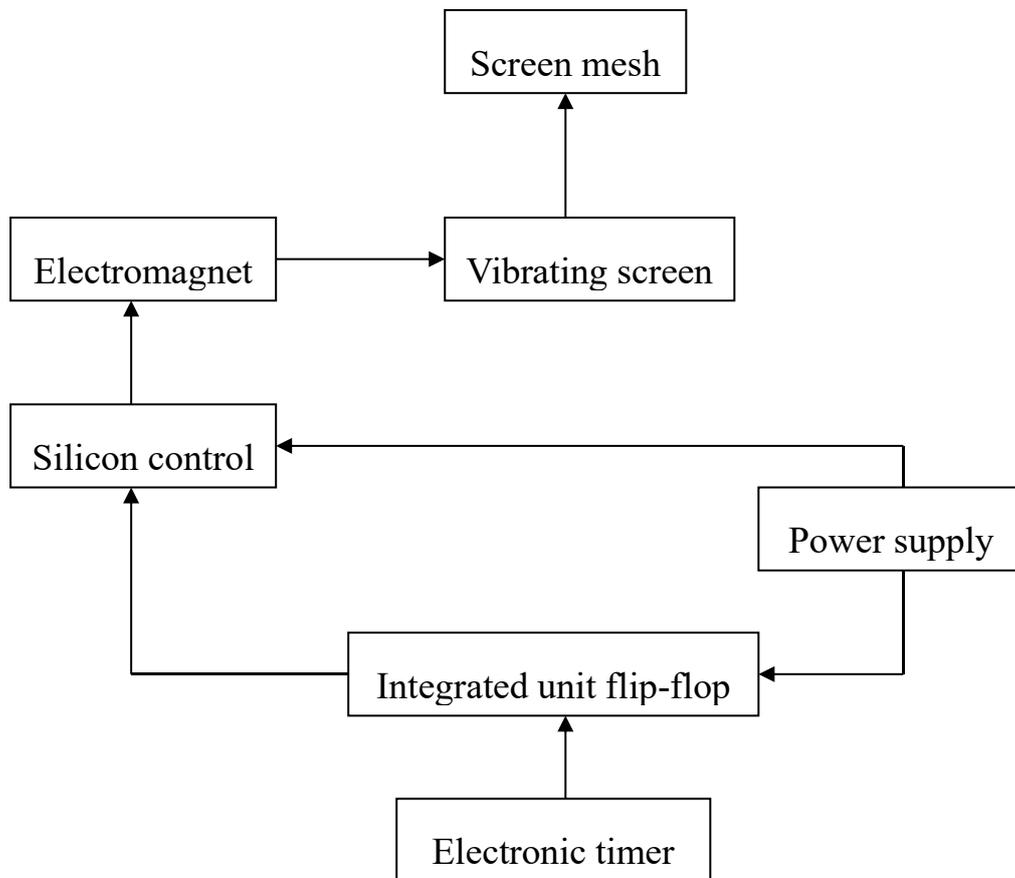


Figure 1

There are three controllers: “Fine”, “Intermittent”, and “Continuation”.

“Fine”: the vibrating screen vibrates in a low amplitude at a frequency of 6000 times / min (100 Hz). This operating mode is applied to the analysis of fine screening (especially for wet screening).

“Intermittent”: the vibration screen vibrates as the required amplitude at a frequency of 3000 times / min (50 Hz). The vibration period of the sieve-plate tower can be set from 3 to 10 sec by a potentiometer. The stopping time is about 1.5 sec, preventing the resonance between the

screen mesh and material and shortening the sieving time.

“Continuation”: the working of vibrating screen is as above, but no stopping. This operating mode is mainly applied to the materials that are easy to be sieved (the fine substances contained are not too many).

In case of the sieving particles greater than 200 mesh, place screening-aid balls on the screens, each of which can use 10 agate balls of 10 mm in diameter each, or 5 rubber balls of 20 mm in diameter each, preventing from blocking the screen meshes.



Figure 2

- 1— Timer panel; 2— Amplitude-modulated knob;
3— Intermittent knob; 4— Function knob; 5— Sieve-tray;
6— Standard screen; 7— Screen head; 8— Lock nut;
9— Tension belt; 10— Spanner

V. Operation

1. Before using the vibrating screen, ascertain what is the specifications of the screen and how many screens to be used according to the materials to be sieved by the user.
2. Place the sieve tray 5 and the corresponding screen 6 on the instrumental platform, and put the screen head 7 on the top, then lock up with lock nut 8, same strength should be put forth to both sides.
3. Place the timer switch 1 in the “Off” position, turn the amplitude-modulated knob 2 to the minimum position and place the function switch 4 in the “Continuation”.
4. Plug the power cord into the AC outlet, select an operating mode on the function knob according to the type of the material to be sieved, then start the timer, thus making the vibrating screen to be in the operating mode. Continuously adjust the amplitude-modulated knob 2, the vibration amplitude would change, turn the amplitude-modulated knob 2 to the position what you need according to the graduation on the screen head.
5. Place the function switch 4 in the “Fine”, the amplitude is ineffective, should turn the amplitude-modulated knob 2 to the minimum position

VI. Common Breakdown and Handling

Breakdown Appearance	Reason and Handling method
The instrument does not work.	Fuse is blown out, please change. (It is installed on PCB, if you can not handle, please contact our Technical Service Department)
The knob is fallen off.	Please take away the cap on top of knob, use cross-screwdriver to screw down. After the knob is locked, close the cap.
The screen head is not fixed firmly for the strap is loose.	By reason that the strap is too long, please adjust it to the range which the teeth can work.

VII. Maintenance

1. In order to ensure vibration is effective when using, the instrument should be put on the stable platform which is made of stone.
2. The instrument should be covered with a plastic cover hood when it is not used.
3. When the instrument has breakdown, please contact our Technical Service Department.