

# Round Flour Checking Sieve

JYSY30×8

## User Manual

Please read this manual carefully before use

## **I. Introduction**

JYSY30x8 Round Flour Checking Sieve is researched and developed by our company according to national standard GB/T 5507-2008 "testing of grain and oil, degree of flour thickness". It's a professional instrument for testing degree of thickness of flour and grain. It has the advantages of reasonable structure, steady operation, stable performance, sturdy and durable, easy to operate. And it is the necessary testing equipment used by the Quality and Technical Supervision Bureau, grain and oil quality inspection departments, food processing industry, schools and so on departments need to test the degree of thickness of flour and grain.

## **II. Principle**

Flour and grain samples are sieved in different sieves with different specifications of the sieve. Samples with different particle size are separated from each other. Calculate degree of thickness of the tested samples according to the amount of residues on the sieve. It adopts high accurate variable transmission of worm and worm wheel and electronic timer single-chip microcomputer control. It can realize multiple functions of time can be adjusted, work abrupt stop, etc.

## **III. Technical parameter**

Sieve diameter: 300mm

Sieve height: 30mm

Gyrations diameter: 50mm

Rotating speed: 260r/min

Sample weight: 50.0g

Time setting: 0 – 999s

Motor power: 90w

Working Voltage: 220v±10% 50Hz

## **IV. Operation**

1. Put the flour checking sieve on the fixed horizontal working table. According to the testing purpose, choose a sieve with certain specification. Use a brush to brush both sides of each sieve silk, and then in accordance with installation sequence of the large hole sieve up, the small hole sieve down, the sieve bottom lowest, the sieve cover top.

2. Weigh the samples 50.0g from the mixed samples and then put them into the upper sieve, put a cleaning block into each sieve sash. If only one sample to be tested, use two layers of sieve and a set of sieve bottom. If two samples are to be tested, use long pull rod, after all the five layers of sieve mesh and sieve cover are placed, hang up the pressing hook and rotate the handle to fix the sieve firmly.

3. Plug in the power and turn on the power switch. Display window shows the default time 600s. If need to adjust the working time, you can press the "Set" button

under the starting state. The single digit flickers. At this moment, press "Add" button to adjust numbers. Press "Set" button again, you can choose ten digit, hundred digit. Similarly, adjust numbers by "Add" button. After finishing setting, press "Set" button again to save set time.

4. Press "start\stop" button, the flour checking sieve starts to work. Time displayed on window is under countdown state. During the working process, if you want to stop, press "start \ stop" button again.

5. After the completion of the flour sieving, pat both screen on different side several times by hand, take down each layer of sieve, pick out the cleaning blocks, brush the sieve residue samples together and weigh them. Upper sieve residue weight (m1); upper sieve residue and lower sieve residue together weight (m2).

## V. Results calculation

Degree of thickness is expressed by weight fraction of upper sieve residue weight divided by sample weight. Calculate according to formula (1) and formula (2).

$$X1 = \frac{m_1}{m} \times 100 \dots \dots \dots (1)$$

$$X2 = \frac{m_2}{m} \times 100 \dots \dots \dots (2)$$

Formula X1, X2 sample thickness degree (expressed by weight fraction), %;

m1 Upper sieve residue weight, unit is gram (g);

m2 Set sieve layer residue weight sum, unit is gram (g);

m Sample weight, unit is gram (g);

Under repeatability conditions, the absolute difference value between the results of two independent tests is not more than 0.5%, calculate its average, namely, the testing result. Test results keep a decimal point.

## VI. Attentions

1. The Flour Checking Sieve should be placed in a horizontal and stable table when it works. Keep the machine steady.
2. Before running the machine, check the pressing hook. Make sure it fixes the sieve sash in case of the sieve out. After using, keep the sieve sash and main machine clean.
3. Sieve sash should be kept in dry, non-corrosive environment. Hard things carve the sieve silk is forbidden. When replacing the sieve silk, replace with sieve silk with the same specifications and must be taut.

4. Before powering on the product, check whether the marked voltage of the product conforms to the local voltage.
5. Power socket should use three-pin socket, and ensure the reliable grounding.

## **VII. Accessory**

Name	Quantity
Main machine	1
Power line	1
Pull rod (long, short)	1 set, respectively
Cleaning block	4
Brush	1
Fuse (2A)	2
Sieve sash	According to the national standard CQ10, CQ16, CQ20, CQ27, CB30, CB36, CB42, bottom, cover 1set
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