

## KASON-SF100 Fully automatic smoothness tester



(The picture is for reference only)

### Introduction:

The fully automatic smoothness tester is a new type of testing instrument developed by our company, strictly in accordance with GB/T456-2008 "Determination of Smoothness of Paper and Paperboard (Beck Method)". This instrument maintains the stability of our earlier products, incorporates the advantages of foreign instruments while overcoming the shortcomings of domestic instruments, adopts modern mechanical design concepts and ergonomic design principles, and utilizes microcomputer processing technology, servo control technology, and dual-channel sensor detection technology. It achieves one-button fully automatic testing and is comparable to imported instruments.

### Features:

1. Employs a servo-controlled speed motor and a high-precision force sensor, ensuring smooth and impact-free paper pressing with more precise pressing force ( $100 \pm 0.5\text{kPa}$  accuracy).

Note: Direct use of a weight or lever mechanism can impact the sample, causing damage. Other fully automatic smoothness testers in China use spring pressure mechanisms, which are prone to inaccurate pressure due to spring fatigue and variations in pressure depending on the sample thickness.

2. Utilizes a 32-bit ARM high-speed processor and high-precision analog circuitry, enabling smooth

measurement and control.

3. Features a 5-inch color touchscreen with Chinese display and touch buttons, making operation simple and intuitive.

4. Employs precise airflow detection technology; the instrument automatically identifies the required range for the test sample and automatically switches between ranges. It also precisely controls the degassing rate according to different samples, ensuring pre-pressing of the sample for 60 seconds as per national standards.

5. A fast testing mode has been added, significantly shortening the testing time to no more than 130 seconds.

6. Employs an imported oil-free vacuum pump, requiring no lubrication and maintenance-free for life.

Added USB communication interface and RS232 interface options, and automatically calculates the difference between two surfaces according to standard built-in features.

### **Specification:**

1. Power Supply: AC220V±20% 50HZ

2. Communication Port: USB2.0/RS232 interface

3. Measurement Range: 1-99999s

4. Timing Accuracy: 99999s timing, error not exceeding ±0.1s

5. Contact Pressure: 100±1kPa

6. Vacuum Container System Volume (ml): Large vacuum container 380±1, Small vacuum container 38±1

7. Vacuum Degree Setting Range (kPa): >300 seconds 50.66-48.00, 15-300 seconds 50.66-48.00, <15 seconds 50.66-29.33

8. Quick Test Mode, Standard Test Mode

9. Air Leakage Volume (ml) (from 50.66kPa to 48.00kPa): Large vacuum container 10±0.15 10. Air leakage volume (ml) (from 50.66 kPa to 29.33 kPa), large vacuum container 80 ± 0.8, small vacuum container 8 ± 0.1

11. Instrument dimensions: 370 mm × 330 mm × 390 mm

12. Net weight: 30 kg

# FOCUS IN MATERIAL TEST

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