



## ZY-MIT135 Microcomputer-Controlled Fold Resistance Tester

### I .Introduction

The ZY-MIT135 Microcomputer-Controlled Fold Resistance Tester (MIT Type) is a specialized testing instrument designed to measure the folding fatigue strength of sheet materials such as paper, cardboard, copper foil, and film with a thickness of less than 1 mm. It is widely used in the paper, packaging, printing, research, and quality control industries. It is currently the industry's leading professional testing equipment for assessing the fold resistance of flexible materials, offering both excellent value for money and high technical precision.



### II .Core Technical Advantages

1. The 7.0-inch LCD touchscreen displays real-time test data, with seamless switching between Chinese and English;
2. The instrument is equipped with a variety of foldable test heads and weights, and can also be customized as needed;
3. Adjustable horizontal and vertical directions, speed, angle, and number of cycles; tension levels are also adjustable;
4. Initial settings are saved in the event of a power outage, and the instrument automatically resets upon test completion;
5. An emergency stop button allows immediate control of the test process in case of an emergency;
6. Fully automatic measurement with intelligent judgment capabilities; upon detecting a break, the instrument automatically stops and saves the data;
7. Can be connected to a computer to automatically plot real-time test data curves (optional);



### III. Main technical parameters

Measurement range	0~99999 times [logarithmic 0~lg4]
Folding angle	135 ° (15~180 °) ± 1 ° adjustable
Folding speed	175 ± 5 times/min (adjustable from 2 to 200 times/min)
Tension adjustment	4.91N、9.82N、14.73N
Standard clamp	spiral locking fixture with parallel position of the specimen
Upper clamping thickness range	(0.1~2.30) mm
Upper clamping width range	(0.1~16.0) mm
Upper clamping force area	7.8 * 6.60mm/51.48mm <sup>2</sup>
Upper clamping force torque	19.95;5.76-Wid 9.85mm
Parallel positioning height of sample	16.0mm
Folding clamp	tension change not exceeding 0.343N
Folding head width	(0.1~20.0) mm
Lower fixture clamping method	cylindrical rolling knob, more convenient for force clamping
Bend radius	0.38 ± 0.01mm
Reproducibility	10% (when 30T), 8% (when 3000T)
Fold temperature change	≤ 1 ° C, AFTER 4H
Sample length	≥ 140mm
Distance between upper and lower clamps	9.5mm
The distance between the folding seams	0.25mm、0.5mm、0.75mm、1.00mm
Human computer interface	5.0-inch color touch screen/dual system in Chinese and English
Print output	modular integrated thermal printer
Size and weight	300 * 300 * 450mm
Weight	30kg