

# HRT – A02 Reciprocating friction and wear tester

## One.Product Description

HRT-A02 reciprocating friction and wear testing machine is mainly used to study the friction properties of materials or surface coatings. The main friction pairs are ball-disc friction or pin-disc friction. The reciprocating stroke of the equipment can be adjusted, stable and reliable, wide range of adjustment, high accuracy of friction measurement and various test forms. Each parameter curve can be drawn in real time, the frequency of point acquisition can be as high as 1000HZ, which can effectively detect the dynamic and dynamic process and improve the measurement precision of the friction force, test force and other parameters. The software is equipped with parameter super preset shutdown or alarm protection. The design of the instrument is ingenious, convenient to install and debug, the software interface is clear and humane, and the operation is convenient.

## Two. Reference appearance:



Note: equipment continues to innovate and upgrade. Pictures are for reference only.

## Three. Technical parameters

1、 Reciprocating frequency: 1-10/20/30Hz/50Hz/100Hz (Customizable)



2、 Reciprocating stroke:

1-40mm continuous adjustable/fixed adjustable stroke/(choose according to requirements)

1um-10mm electromagnetic type (choose module according to specific requirements)

3、 Max load: 200N

4、 Loading mode: Weight loading

5、 Relative Accuracy of test force:  $\pm 1\%$

6、 Rang of friction measurement: 0-100N

7、 On-line grinding measurement module: Magnetolectric induction measurement (selection)

8、 Measurement resolution of wear quantity: 0.001mm

9、 Test temperature: room temperature  $\sim 120^{\circ}\text{C}$

10、 Temperature measurement method: thermocouple

11、 Precision of temperature measurement:  $\pm 2^{\circ}\text{C}$

12、 Pattern observation: High definition electronic observation system displays the morphology and size of wear marks

13、 Data processing: a set of computer processing systems

Note: due to the specificity of friction and wear equipment is relatively strong, the above parameters are for reference only.

**Four、 Main configuration:**

- |   |   |
|---|---|
| 1、 Test machine frame                   | 1set;   |
| 2、 Reciprocating module                 | 1set;   |
| 3、 Test force and friction force sensor | 1 set of each;  |
| 3、 Friction pair clamp                  | 1set;   |
| 4、 Special control system               | 1 sets(including computer, acquisition module .       |
| 5、 Special-purpose tools                | 1 set (containing calibrated weights and accessories) |

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