

## HSTBF-102H High Temperature Rotary Bending Fatigue Testing Machine



Pictures just for reference

### 1. Function

Rotary bending fatigue testing machine, with the following functions:

- Meet the requirements of four-point tensile test of cylindrical specimen of GB/T 4337-2015, and carry out the test;
- Can be tested at high temperature or normal temperature;
- Servo motor drive, speed stepless adjustment;
- Counting function, accurately record the number of sample rotation;
- Servo motor loading, force sensor to measure the loading force (moment);
- The test speed can be changed during operation;
- The loading force (bending moment) can be changed during operation;
- Automatically shut down after sample failure and save data;

- Calculate and process data, generate and print test reports.

## 2. Applicable standards:

- (1)GB/T 4337-2015 "Rotating Bending Method for Fatigue test of Metal Materials"
- (2)GB/T 2611-2007 "General Technical Requirements for Testing Machines"
- (3) HB5152-1996 "Metal Room Temperature Rotational Bending Fatigue Test Method"
- (4) HB5153-1996 "Metal High Temperature Rotational Bending Fatigue Test Method"

## 3. Main technical parameter

| MODEL                                            | HSTBF-102H                |
|--------------------------------------------------|---------------------------|
| Maximum speed                                    | 6000r/min                 |
| Loading torque                                   | 100Nm                     |
| Loading lever                                    | 125mm                     |
| Loading force                                    | 80N ~ 800N                |
| Loading force resolution                         | 0.05N                     |
| Relative error of loading force                  | $\leq \pm 0.5\%$          |
| Force value variation during operation           | $\leq \pm 2\%$            |
| Continuous operating Temperature range           | 200 ~ 800℃                |
| Average temperate zone length                    | 30mm                      |
| Temperature gradient                             | $\leq 15^{\circ}\text{C}$ |
| Power: Main rotary motor                         | 850W                      |
| Loading motor                                    | 100W×2                    |
| Heating furnace                                  | 1kW                       |
| Voltage and frequency                            | 220VAC,60Hz,Single Phase  |
| Main machine dimensions (width × depth × height) | 1100×700×1310mm           |

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